May 15, 2015

CDI Corporation
1717 Arch Street
Philadelphia, PA 19103

Mr. Robert P. Kilpatrick, Senior Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Reference – Statewide Contract for Temporary IT Staffing Services
Solicitation Number – CRFQ 0511 HHR 1500000008

Dear Mr. Kilpatrick:

CDI Corporation is pleased to present the following response to CRFQ 0511 HHR 1500000008 for Statewide Temporary IT Staffing Services.   Enclosed in our formal quote and response with the following documents and information for your review.

1. Qualifications – supporting 3.1 and 3.2 under the Specification document
2. Addendum to General Terms and Conditions – supporting #22 "Modification" listed in the General Terms and Conditions
3. Certification and Signature Page
4. Insurance Certificate – supporting #8 Required Documents under General Terms and Conditions
5. Purchasing Affidavit
6. Contract Manager – supporting 11.1 Miscellaneous
7. Addendum Acknowledgement (s)
8. Pricing Template in support of #6 "Pricing" under General Terms and Conditions

CDI has been a proud partner of the State of West Virginia for over 20 years and look forward to our continued value added relationship with the State in years to come. Should you have any questions regarding this response, please feel free to contact me directly at 571-332-1702.

Regards,

Robert S. Strickland
Area Manager – CDI Corporation
571-332-1702

05/19/15 11:27:34
WV Purchasing Division

Qualifications

3.1 – Vendors shall be in business a minimum of five (5) years, providing similar information technology staffing services. Vendors must provide documentation in indicate their company meets this requirements prior to award; however, bidders may include this documentation with their bid.

In support of 3.1 Qualifications under the Specification document CDI is providing the State with the following information that meets this requirements

1. **Company Fact Sheet (pasted below)**
2. **Legal Articles of Incorporation (PDF)**

CDI Corporation Facts

CDI Corp. (NYSE:CDI) is an engineering and technology services firm providing client-focused solutions in select global industries. CDI provides global engineering and technology solutions and professional staffing services through its global business operations. The Company also provides executive search solutions through its franchised Management Recruiters International, Inc. (MRI) operating unit.

CDI delivers staffing solutions and recruitment services to leading companies with operations around the world. We have 60 years of experience placing people in contract and full-time positions with clients in a broad range of industries with a specialization in IT and engineering recruiting with focus in the United States and Canada.

Company Address

CDI Corporation
1717 Arch Street, 35th Floor
Philadelphia, PA 19103-2768

Company Web Site / URL

www.cdicorp.com

Legal Name & DBA Name - CDI Corporation

Year Incorporated –1950 (Exact Date: September 16, 1950)

State of Incorporation -- Pennsylvania

Supplier Size Classification -- Large

Number of Employees

Total Number of Employees

Approximately 9,400. This includes all employees and contract workers.

As of December 31, 2014, CDI had approximately 800 staff employees. In addition, CDI had approximately 8,600 employees and other workers engaged as billable personnel. The number of billable employees and other workers varies in relation to the number of projects and assignments in progress at any particular time.

Number of contract workers

Average number of contract workers in the U.S: about 4,200

Total Number of Contract Workers: 8,600

Number of Internal CDI Employees

500 (CDI internal staff (i.e., Management, Sales, Recruiting, Shared Services)

Codes and Numbers

Federal Tax ID Number (Employer Identification Number)
23-1341909

CDI CORPORATION

CERTIFICATE OF SECRETARY

I certify that:

1. I am the duly qualified and acting Secretary of CDI Corporation (the "Company"), a duly organized and existing Pennsylvania corporation

2. Attached as "Exhibit A" are true copies of the Amended and Restated Articles of Incorporation of CDI Corporation as filed on December 1, 1988 and a Statement of Change of Registered Office filed May 4, 1999.

                                                       Joseph R. Seiders
                                                       Secretary

DATED: March 5, 2002

[Corporate
Seal]

Exhibit A

Commonwealth of Pennsylvania

Department of State

To All to Whom These Presents Shall Come, Greeting:

Whereas, In and by Article VIII of the Business Corporation Law, approved the fifth day of May, Anno Domini one thousand nine hundred and thirty-three, P. L. 364, as amended, the Department of State is authorized and required to issue a

CERTIFICATE OF AMENDMENT

evidencing the amendment and restatement of the Articles of Incorporation in their entirety of a business corporation organized under or subject to the provisions of that Law; and
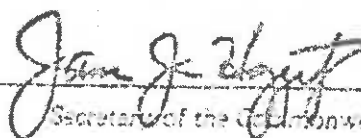
Whereas, The stipulations and conditions of that Law pertaining to the amendment of Articles of Incorporation have been fully complied with by

CDI CORPORATION

Henceforth The "Articles," as defined in Article I of the Business Corporation Law, shall not include any prior documents;

Therefore, Know Ye, That subject to the Constitution of this Commonwealth and under authority of the Business Corporation Law, I do by these presents, which I have caused to be Sealed with the Great Seal of the Commonwealth, extend the rights and powers of the corporation named above, in accordance with the terms and provisions of the Articles of Amendment presented by it to the Department of State, with full power and authority to use and enjoy such rights and powers, subject to all the provisions and restrictions of the Business Corporation Law and all other applicable laws of this Commonwealth.

Given under my Hand and the Great Seal of the Commonwealth, at the City of Harrisburg, this   1st
day of   December   in the year of our Lord one
thousand nine hundred and   eighty-eight
and of the Commonwealth the two hundred thirteenth.

_____
Secretary of the Commonwealth

DSCB-853-84 (1-79)

685

Qualifications continued……..

3.2 – Vendors shall be able to demonstrate their potential to provide these services by providing documentation to indicate they have provided staffing of individuals with at least six (6) different listed classifications within the past five (5) years………

In support of 3.2 Qualification under the Specification document CDI is pleased to present the State with the following employees who are currently employed by the State of West Virginia through CDI Corporation or assigned to other CDI clients. We are certain that the individuals below meet and exceed the qualifications listed for each job classification.

For your review CDI has listed each of the individuals below by "Classification Title" and included the corresponding number associated with this title listed on the Specifications document, #1 Purpose and Scope. Resumes for each classification are provided with CDI quote.

To protect the privacy of our employees, CDI has elected to black out names of our employees. Should the State of West Virginia request the resumes with names including references, CDI will be happy to provide this through a separate request of the State not to be included for public viewing.

Please note, employees currently assigned to the State of West Virginia in some cases occupy the position listed below supporting HHR. Others may work for different State of West Virginia agencies not assigned to HHR or OMIS but have applicable skills that are directly qualified for the job classification.

Classification #	Title	CDI Client
#1	FACTS Technical Project Manager	State of West Virginia
#2	FACTS Sr. Web Application Analyst	State of West Virginia
#6	OSCAR Sr. Application Programmer Analyst	State of West Virginia
#7	OSCAR Application Programmer Analyst	State of West Virginia
#10	Application Oracle Database Administrator	State of West Virginia
#13	Sr. COGNOS Analyst/Project Manager	State of West Virginia
#15	Software Test Analyst	Savana, Inc
#16	Help Desk Analyst	Arlington County Gov.
#17	Business Analyst	City of Philadelphia
#18	Technical Writer	Bayer
#23	Sr. .NET Application Programmer Analyst	State of West Virginia

RESUMES SUPPORTING TABLE FOLLOW

Position Classification# 1 - FACTS Technical Project Manager

EXPERIENCE SUMMARY:

- A **technical project manager** with **more than 16 years of experience** designing business solutions across several markets and platforms utilizing accomplished skills in requirements gathering, **analysis and design, architecting, data modeling, object-oriented** application development, database development, reporting, and **team lead/project management**.
- A **Certified Project Management Professional (PMP)** with more than **10 years** of experience **in a senior analyst/project management role.** Experience involved **tracking, overseeing and reporting** throughout **the Systems Development Life Cycle (SDLC).**
- **11 years** of consummate proficiency with a **complex, large-scale, N-Tier**, enterprise level Statewide Automated Child Welfare Information **(SACWIS)** application; **7 years** of programming **Title IV-E eligibility and determination** program functionality.
- **14 years** of extensive experience with full software life cycle implementation of **large-scale client/server applications using PowerBuilder Ver. 4.0 - 12.0.** Worked extensively with **dynamic data windows, in-depth experience with various object-oriented custom and third party (PFC, Power Tool) foundation class** library members used for building enterprise level PowerBuilder applications.
- **10 years** of experience with designing and building **dynamic database driven enterprise level web applications** using various **Web technologies like ASP, ASP.Net, AJAX, HTML, JavaScript, C# and Java.** Extensive experience with **.Net Framework 1.0 – 4.5** and **Visual Studio** 2003 – 2012)
- **4 years** of experience with building web applications using **ASP.Net MVC, WCF and JQuery.**
- **More than 6 years** of extensive experience using **Component-Based Scalable Logical Architecture for .NET (CSLA.Net) for building .Net applications.**
- **14 years** of experience with **relational databases; 12 years** using **Oracle 8.x/9.x/10.x/11g database– SQL tuning, PL/SQL, stored procedures**, triggers, and **data design/data modeling**.
- **6 years** of experience with third party web components (AJAX enabled) like Component Art Web.UI, and **Telerik/Kendo for developing Asp.Net applications**
- **More than 4 years** of experience with **designing and developing applications using the Java Platform and the Oracle SOA Suite.**
- **8 years** of experience with **Systems/Application architecture** involving **evaluation of new tools and technologies**, and developing **strategies to modernize legacy applications.**
- **More than 5 years** of experience with **application performance monitoring,** analyzing, **performance tuning, and securing** large-scale enterprise applications, using tools like **dynaTrace, Fiddler, and Visual studio team system.**
- **More than 1 year** of experience with designing and developing solutions using **Microsoft Bing Maps and Oracle Locator.**
- **More than 3 years** of experience designing and developing solutions using **QAS address verification tool.**
- **More than 7 years** of experience with creating and administered multiple project **team collaboration** websites using **Microsoft SharePoint Services/Server**
- **More than 7 years** experience with **system administration and maintenance of windows servers 2003/2008/2012,** managed **server certificates**, and **installation and configuration of applications.**
- **10 years** of experience working on reporting technologies like **Crystal reports 7.0/8.x**, and **PowerBuilder – WordPerfect/Microsoft Word interface**

> Excellent written and verbal communication skills and presentation skills. Have closely interacted with the various project stakeholders during the project life cycle.

EXPERIENCE:

CDI Professional Services, Charleston, WV
Project Manager/Lead Analyst   April 2002 – Present

Client: Dept. of Health and Human Resources, Charleston, WV   July 2009 – Present
April 2002 – December 2008

Role: Project Manager/Lead Analyst
Environment: ASP, ASP.Net 1.1/2.0/3.5, ASP.Net MVC1.0/3.0/4.0, WCF, .Net Framework 1.1/2.0/3.5/4.0/4.5, C#, Java, HTML, JavaScript, JQuery, AJAX, XML, PL/SQL, Visual Studio 2005 / 2008 / 2010/ 2012, Team Foundation Server 2005/2008, PowerBuilder 10.2/11.5/12.0, Oracle 9i/10g/11g, Oracle SOA Suite 10/11, Microsoft Enterprise Library, Component-Based Scalable Logical Architecture for .NET (CSLA.Net), Componen tArt controls, Telerik RadControls, Kendo UI, IIS 6.0/7.0/8.0, Microsof t Office SharePoint Server (MOSS) 2007, dynaTrace 3.5 Test Center Edition, dynaTrace Ajax 3.0, Fiddler 2.0, Crystal Reports 8.5, Aspose Words for .Net, Bing Maps, Oracle Locator, QAS, Microsoft Project, ERwin, log4net, and FxCop
Responsibilities:
Project Manager/Lead Analyst for the FACTS **Title IV-E project** engaged in the design, development, maintenance and modernization of a Complex, large-scale, N-Tier - **Statewide Automated Child Welfare Information System (SACWIS)**.

Application Design and Development:
- Participated in Joint Application Development (**JAD**) sessions, using the **RAD** methodology of application prototyping, for gathering system requirements.
- Lead responsibility for design, development and maintenance of **Title IV-E Eligibility** functionality.
- Performed maintenance and development tasks using **PowerBuilder**, ASP.Net, C# and Oracle – PL/SQL, among other software used on the project.
- Worked extensively with **Visual Studio 2003 - 2012** for developing web applications.
- Created and administered multiple **project team collaboration websites using Microsoft SharePoint Services/Server**.
- Involved with troubleshooting production issues and developed solutions using application and data analysis.
- Used **AJAX** and AJAX-enabled components (Telerik RadControls / Kendo UI) for designing **dynamic database driven web pages**.
- Worked extensively with **dynamic data windows, data stores, foundation class libraries, and many other key features of PowerBuilder.**
- Worked extensively on the **Oracle database – Data Design/Data Modeling, PL/SQL** (stored procedures and triggers), and **SQL tuning**.
- Involved with troubleshooting production issues and developed solutions using application and data analysis.
- Designed and implemented various **secure web applications** (RAPIDS Search, Automated Provider Referral, and Case Plan Progress Plan Report) that are also **tightly integrated with the PowerBuilder** application.
- **Involved in the design and development of the Case Plan Progress Plan Report,** This system once completed will be used for exchanging case plan information electronically with the **WV Supreme Court.**

- Worked extensively in the **Child Protective Services (CPS) web initiative.** Created and maintained the prototype application, and subsequently developed many key screens in the **CPS – Intake, Investigation and Institutional Investigation** area.
- Worked extensively with **QAS** address verification tool, integrated the tool into CPS web application. Also, used the **QAS batch** verification module for cleaning provider address information.

System Architecture
- Played a key role in **architecting, developing and maintenance of multiple dynamic database driven websites** (WVCourt, RAPIDS Search, FACTSPLUSNET, RODCA, Child Protective Services, Automated Provider Referral, and Case Plan Progress Plan Report). These websites were built using **.Net framework 2.0 – 4.5** and its related technologies:
    - Presentation Layer: **ASP.Net web forms, MVC, HTML, JavaScript, jQuery, Telerik RadControls for ASP.net Ajax, Kendo UI**
    - Middle Layer: **C# business objects built using CSLA.Net framework, WCF**
    - Data Layer: **Oracle** packages, procedures and triggers built using **PL/SQL language**

- Lead responsibility for developing and implementing a strategy for modernizing the legacy application.
- Lead responsibility for evaluating and upgrading the application software. Interacted closely with software vendors like Sybase to get the issues resolved.
- Prepared various system architecture documents as needed by the project
- Used ERwin Data Modeler tool for generating ER diagrams.
- Principal architect involved with integrating two large social welfare applications resulting in obtaining a unified picture of all the benefits (Food Stamps, Medicaid, and daycare among others) that a client is receiving from the state and federal government.
- Involved with **analysis, design and implementation** of windows (PowerBuilder) and Web (ASP.Net) applications using the **object-oriented programming (OOP)** methodologies.
- Lead responsibility for architecting and developing a Geographical Information System (GIS) system using **Oracle Locator and Bing Maps**
- Lead responsibility for design, development, and implementation of solutions using **Java platform and Oracle SOA Suite software**. Also, assisted with software installation and general administration tasks.
- Lead Architect for **modernizing IV-E administration** area, participated in JAD sessions with end users to identify issues with current system and develop objectives for the new system. A prototype application incorporating the JAD group feedback was developed.

Quality Control
- Key member of the quality assurance team involved in defining, developing, and maintaining the project coding standards, and processes. Also, performed code reviews.
- Worked extensively with **application performance tuning, monitoring, and security** using tools like **dynaTrace** test suite, dynaTrace Ajax, fxcop, and Fiddler.

Project Management
- Conducted team meetings, reviewed project status and deliverables through the entire Systems development Life Cycle (SDLC).
- Prepared weekly project status reports for management.
- Used Microsoft Project for creating work breakdown structures, project plans, scheduling and controlling of project resources and tasks.

- Prepared a comprehensive proposal for starting a Project Management office (PMO) at WV DHHR. Worked closely with Mrs. Darlene Thomas, CTO, and Ms. Brenda Howell, Project Director among others in preparing this report.

Reporting
- Generated numerous management reports using Crystal Reports.
- Composed Microsoft Word templates and populated data fields at runtime using OLE.
- Created dynamic reports for a Web application using Telerik reporting controls, and Aspose Words for .Net
- Made PL/SQL blocks to extract data into Excel spreadsheets for ad-hoc reporting needs.

System Administration
- Key member of a **system administration** team involved in installing, maintenance and troubleshooting of **8 Internet Information server (IIS) 6.0/7.5/8.0** running on **windows server** 2003/2008/2012. Installed and configured applications and managed SSL Certificates.
- Leading member of a team involved in installation, maintenance and troubleshooting of **Microsoft Team Foundation server (TFS) 2005/2008**.
- Administered various **SharePoint project collaboration sites on Microsoft Office SharePoint Server (MOSS) 2007 and Microsoft SharePoint Services**.

Communication
- Prepared and delivered effective PowerPoint presentations to the project team and management.
- Closely interacted with the various **project stakeholders** through verbal and written communications.
- Wrote system documentation.

Client: Terradon Communications Group, Poca, WV   March 2009 – July 2009
Role: Technical Consultant
Environment: Visual Studio .NET 2008/**.NET Framework 3.5, SQL Server 2008,** ASP.NET 2.0, C#, Telerik RadControls, AJAX, **Microsoft Mapping APIs, Visual source Safe, MS Visio,** JavaScript, **WCF, LINQ, jQuery, CSS,** XML, **XSD**
Responsibilities:

Project 1: West Virginia Department of Commerce - Content Management System (CMS)

- A key member of a team involved in analysis and development of a large-scale customized **Content Management System (CMS) for the West Virginia Department of Commerce.** This multilingual, **dynamic data driven CMS website** is an interactive communication tool for promoting tourism and industries within the state of West Virginia (**www.wvcommerce.org**).
- Worked on major application modules like Site selector, Development site, and My Account.
- Created **numerous dynamic and interactive web pages** using **ASP.Net, C#, JavaScript, and AJAX** technologies. Development was done using **Visual Studio 2008** software.
- Worked extensively with ASP.Net server controls **and Telerik RadControls**
- Built custom ASP.net user and server controls.
- Worked extensively with SQL Server – designed and created tables and **stored procedures**.

Project 2: United Coal Company (UCC), Blountville, TN

- **Lead Analyst** on a project involved with designing and development of a unified coal production reporting application. The system uses **.net web services - Windows Communication Foundation (WCF)** for gathering daily coal production information from the various mines run by UCC and its subsidiaries.
- The system uses X.509 Certificates for authenticating clients
- Worked extensively with SQL Server – designed and created tables and **stored procedures**

ONE Community, Inc. Oakbrook Terrace, IL
Consultant   July 2000 – January 2002

Client: Adelphia Business Solutions, Buffalo, NY
Role: PowerBuilder Developer
Environment: PowerBuilder 6.5, PFC and Oracle 8.0.5
Responsibilities:
- Part of a 125-person team that designed and implemented an **enterprise-level** custom order entry/order management system that manages the client's converging lines of telephony, telecommunications, and cable businesses.
- **Lead a team of 3 to 4 developers and performed scheduling, monitoring and other task management duties through the project life cycle.**
- Performed systems analysis, design, development, and testing to accomplish the various project assignments. This also involved **data modeling and rapid prototyping duties**.
- Worked extensively with **dynamic data windows, data stores, foundation class libraries, and many other key features of PowerBuilder.**
- Designed and developed various modules like cash management, and account management among others.
- Worked extensively with **Oracle PL/SQL (stored procedures and triggers)** and advanced queuing functionality.
- Architected and developed solutions for integrating order information with the billing system (Arbor from Lucent technologies).
- Key member of a team responsible for managing the transition of the project to the client and system's testing, **communicated with the user-side management** for managing the transition
- Prepared system documentation.

DCR, Inc. Delray Beach, FL
Software Engineer   April 1998 – July 2000

Client: Deloitte & Touché, PA
Role: Software Engineer
Environment: PowerBuilder 5.0, PFC and Oracle 7.3. Crystal Reports
Responsibilities:
- A key member of a team involved in analysis and development of the **Adult Protective Services (APS)** system that provided the ability to record and track abused and neglected adults who were receiving welfare services.
- Developed the GUI using the Rapid Prototyping Methodology with active client participation.
- Independently developed the **data model** along with **table design** and Screen Details based on user requirements for the staff time study module.
- Worked extensively with PowerBuilder and Oracle
- Designed and developed MIS reports.

Client: MCI, VA
Role: Software Engineer
Environment: PowerBuilder 5.0, Sybase System 10, and InstallShield.
Responsibilities:
- A **Lead analyst** involved in development and maintenance of an Ad-Hoc reporting system. The system generated reports on customer profiles, performance of different promotions, and customer billing.
- Performed **systems analysis, design** and development to accomplish the various project assignments.
- Reviewed the application for Y2K compliance.
- Built the application deployment package using InstallShield.
- Prepared Test plans, Test cases and end-user documentation.

Client: Pharamchem Labs, CA
Role: Software Engineer
Environment: PowerBuilder 5.0, PFC, InfoMaker with Sybase System 11 and Btrieve 6.15
Responsibilities:
- A Key member of a team that developed a module to handle the collection of samples (for drug testing) and the commissions that need to be paid to the collectors.
- Designed and developed the application using PFC (PowerBuilder's Foundation Classes)
- Performed **analysis, design, data modeling**, and development tasks.
- Built an interface for performing data conversion and loading data to a financial package (Solomon) running on a Btrieve database.
- Created Ad Hoc reporting utility (using InfoMaker)
- Prepared Test plans, Test cases and end-user documentation.

Renaissance Informatics Ltd, New Delhi, India
Software Engineer   November 1995 - March 1998

- Worked on multiple projects for clients in Manufacturing and Financial services industry. Development tools included **PowerBuilder** 4.0/5.0, PowerTool foundation Class Libraries, Sybase SQL Server, Sybase System 10 and S-Designer.
- Involved in the **analysis and design** of the GUI using the RAD methodology of rapid application prototyping.
- Performed data modeling tasks and built ER diagrams using S-Designer.
- Extensively used PowerTool foundation class library for PowerBuilder application development.
- Developed the security module for the entire system.
- Involved in the development of test plans, MIS reports and system documentation.

Education:
Master of Science, Technology Management - Information Technology emphasis
Marshall University, West Virginia (2005)

Bachelor of Science, Computer Science
Nagarjuna University, India (1995)

Certifications and Awards:
Project Management Professional (PMP) certification. 2005 - Present

Received an award in the Digital Government: Government to Business category during the 2009 Recognition Awards for Excellence in Information Technology, **presented by the WV Office of Technology CTO**

TRAINING:
Corticon Developer Training
A 3 day hands on workshop for learning the various features of Corticon studio for developing Business Rules Engine, conducted by Progress Corporation.

Oracle Fusion Middleware SOA Suite 11g Workshop
A 1 day hands on workshop for learning the various features of Oracle SOA Suite, conducted by Oracle Corporation.

Oracle 11g Database Security Workshop
A 1 day hands on workshop for learning the various database security features, conducted by Oracle Corporation.

Java Programming Language Workshop
A 5 day program designed to develop core java programming skills, conducted by Sun Micro Systems.

Implementing an Iplanet Portal and Iplanet Directory server.
Training conducted internally on an ongoing project at One Inc.

CLASSIFICATION #2 - FACTS SR. WEB APPLICATIONANALYST

Experience Summary:

Summary of Qualifications:
- Over 15 years of experience working on a wide range of technologies and business systems.
- Over 12 years of extensive experience in a large scale enterprise system such as the State Automated Child Welfare Information System (SACWIS).
- Over 8 years of experience in data modeling.
- Over 5 years of experience as senior analyst demonstrating the ability to guide, coach, help and mentor other developers.
- Over 8 years of experience in system design and analysis and using RAD/JAD methodologies.
- Over 10 years of experience with Client/Server application development and Object Oriented Programming using PowerBuilder Versions 5 to 11 and Powerbuilder Foundation Class (PFC) libraries.
- Over 5 years of coding experience working on Web technologies particularly on .NET Framework 2.0/3.5, ASP.Net 2.0, C#, JavaScript, AJAX, Visual Studio 2003/2005/2008 and HTML programming.
- Over 2 years of extensive coding experience using Component-based Scalable Logical Architecture (CSLA) framework to build .Net Applications.
- Over 3 years of extensively coding and integrating third party ASP.NET controls and AJAX based components like Telerik, ASPOSE.Net, Cognos 8 SDK and Component Web Art UI for .NET WEB applications.
- Over 5 years of solid working experience with graphic designing for WEB application using Adobe Photoshop CS and Fireworks.
- Over 5 years working experience on OLE Automation with MS Word and Excel and DDE using WordPerfect for reporting.
- Over 10 years of experience in database application programming, writing stored procedures, SQL performance tuning in Oracle RDBMS database (Versions 8.x/9i/10g), and Informix-DB.

Technical Skills:
- Create prototype and production-level object-oriented applications throughout software development lifecycle, including design, modeling, coding, testing, and documentation.
- Analyze business, functional, and technical requirements to make sure project met expectations.
- Use PowerBuilder's dynamic data windows and data stores to access and manipulate data.
- Use non visual objects (NVOs) and OLE Automation technologies to demonstrate object oriented programming. Use PowerBuilder Foundation Class (PFC) Library objects to build an in-house client/ server application for the project team development.
- Work on dynamic database driven .NET WEB applications.
- Write ASP.NET code behind pages, custom control classes in C#, JavaScript functions and Telerik controls integration.
- Write class libraries to handle database driven navigation using .NET Sitemap custom provider control and Oracle database stored procedures.
- Write complex database triggers, stored procedures and functions to process data based on the business requirements. Design and create database tables, relations, views constraints and referential integrities.
- Proficient in developing PL/SQL and tuning SQL performance.

- Use OLE/DDE/COM Technologies to interface with Microsoft Office/Corel Office Applications.

- Perform quality assurance and review of software codes and participate in evaluating tools and software products.
- Good analytical skills, trouble-shooting skills and high learning aptitude. Adept at multi-tasking.
- Team player, innovative and with strong communications and inter-personnel skills.
- Participate in a Joint Application Development (JAD) team sessions and discussions with users.
- Use Rapid Application Development (RAD) methodology to develop prototypes for user evaluation and input.
- Languages: C#, PowerBuilder 5.0 to 12, ASP, ASP.NET 2.0/3.5, VS 2005/2008/2010, Oracle PL/SQL, Informix 4GL/SQL, RPG 400/CL 400, Unix Shell Script Programming.
- Application Frameworks: .Net Framework 2.0/3.0/3.5/4.0, PowerBuilder Foundation Class (PFC), CSLA.NET for Windows (Component-based Scalable Logical Architecture), Microsoft Enterprise Library.
- Database: ORACLE 8.x/9.x/10.x/10g, SQL Server 2000/2005, Informix, MS Access, Dbase, MySQL.
- Application Servers: IIS 5.0/6.0/7.0.
- Web Technologies: JavaScript, JQuery, HTML, AJAX, ADO, XML/XSLT, ASP.NET 2.0/3.5, Telerik ASP.NET Ajax Controls, Telerik Reporting, and .Net Framework 2.0/3.5, ASPOSE.NET.
- Operating Systems: Windows NT/2000/2003/XP, UNIX.
- Applications: FACTS CPS WEB Application, Families and Children Tracking System (FACTS), Child Support Enforcement System (CSES), Equitable Bank Remittance Account System, Healthcare Information System (I-CARE), Pharmacy System, Payroll System (Unix and PC based), Merchandise Information System, Consignor Monitoring System, Point-of-Sale Retailing System (Support).
- Tools: PL/SQL Developer, TOAD, Adobe CS, Fireworks MX, MS SharePoint, PVCS, TFS (Team Foundation Server), Cognos 8 SDK.

Education:
Bachelor of Science in Statistics (1986-1990)
- Statistical Center, University of the Philippines, Diliman Quezon City, Philippines

Certifications/Training:
- New Horizons Computer Learning Centers, Hurricane, West Virginia, August 2003: Visual Studio .NET WEB Application, C# Programming
- Philippine System Products, Inc, Makati City, Philippines, April 1994: SUN Enterprise Solution Show
- IBM (Philippines), Makati City, Philippines, May 1991, IBM 4683 POS Workshop, POS BASIC
- Unidata Corporation, Makati City, Philippines: Feb 1991, OS/400 RPG/400 Language Training
- Sep 1990, C-Language, Aug 1990, Informix 4gl/SQL and Unix Training

Experience:
03/01 – 07/11	CDI IT Solutions/ Assigned to: Department of Health and Human Resources
	Title: **Senior .Net/Powerbuilder Developer**

- FACTS was modified to include case management and payment functionality for Child Care Program.
- A major module of FACTS called Child Protective Services (CPS) had also been redesigned and converted to ASP.NET Web Application with C# as the code behind.
- The converted WEB application also ran as an embedded application within the FACTS Client/Server PowerBuilder application.

- With the goal of increasing user productivity, FACTS functionality had also been successfully implemented on PDAs (personal digital assistants) and extended to the WEB with the implementation of FACTSPlus system which allows registered providers to see the details of their services provided via Statewide FACTS system
- Played a major role in coding, designing, maintenance and testing most of the important modules of FACTS CPS Web Application such as Client Modules, Workload, Dashboard, Navigation and Security.
- Responsible for integrating the Telerik UI Ajax controls and Aspose.Word for reporting, created reusable UI components, and implemented Windows Workflow Foundation for data driven navigation and security.
- Involved in tuning the application to achieve better speed performance.
- Integrated business intelligent reports to the CPS Web application using the Cognos SDK.
- Involved in the evaluation of application framework and .Net components to be used in WEB application development for FACTS/CPS.
- Responsible for the WEB graphic design and extending the .NET controls.
- Involved in the development of ASP.NET WEB based FACTSPlus payment screens and APR (Automated Placement Referral) module built using ASP.NET VS 2008, C#, .NET Framework 3.5, CSLA Framework, JavaScript, Telerik ASP.NET controls and AJAX based components.
- The APR module is integrated with FACTSPlus and also called within the FACTS client/server PB application
- Worked closely with the functional and technical teams to design and develop the application.
- Demonstrated the ability to guide, coach and mentor other developers involved in FACTS project.

11/96 – 02/01   Contract Services Firm/ Assigned to: Deloitte and Touche/ Department of Health and Human Resources
Title: **Senior PowerBuilder Developer**

- Families and Children Tracking System (FACTS) of West Virginia was a customized automated Case Management System for all Child Welfare and Adult Service Programs.
- This automated system was the tool that all social service staff use to document and managed their casework process, and also paid providers for their services.
- One of the principal developers on a team engaged in the design and analysis, data modeling, coding development and implementation of FACTS.
- Primary responsibilities included design, testing, debugging, bugs fixing, coding, QA analysis, documentation, mentoring, enhancement and maintenance of FACTS.
- Responsible for the design and maintenance of high level of inheritance in the application.
- Used PowerBuilder Foundation Class (PFC), developed ACD (Add/Change/Delete) application that logs changes in database objects, PowerBuilder objects and tracks errors and issues.
- The ACD application had been an important in-house tool used in FACTS by every member of the team.
- Wrote several PowerBuilder data windows, screens, data stores and user objects for FACTS. Extensively used dynamic data windows and Remote Procedure Call (RPC) of Oracle stored procedures and functions.
- Extensively used OLE automation to interface and send data between PowerBuilder and MS Word for FACTS reporting.

- Wrote the PowerBuilder ancestor objects along with converting WordPerfect macros to MS Word VBA macros.
- Wrote stored procedures, functions and triggers in ORACLE RDBMS.

- Used PL/SQL tool for developing, monitoring and performance tuning the SQLs.
- Used Novel GroupWise SDK and Windows MAPI to interface PowerBuilder for the e-mailing functionality in FACTS.
- The FACTS application was built using PowerBuilder 10.2 and Oracle 9i /10g. MS Word and Crystal Reports were used to develop management reports and Micro Focus COBOL to develop Interfaces.

02/96 – 10/96　　　Contract Services Firm/ Assigned to: Deloitte and Touche/ Department of Child Support
　　　　　　　　　　　Title: **Informix-4GL Senior Programmer/Analyst**

- South Carolina Child Support Enforcement System (SC CSES) was aimed at providing an automated solution in managing child support cases as per the Title IVD of the Social Security Act.
- SC CSES had been developed to ensure improved program performance and complete compliance with the federal regulations.
- SC CSES is a distributed database system with a central controlling system and 46 county systems each communicating with each other on a TCP/IP network.
- The communication between the central and other counties is established via replication, wherein the necessary database updates on central are applied to the appropriate counties and vice-versa.
- This system provided, on demand, completed case level as well as case member information access to all the counties in South Carolina.
- The system provided comprehensive child support functionality through the following sub-systems: Case Initiation, Case Management, Locate, Establishment, Notices, Financial Management, Management Reports, Disbursement, etc.
- Source Code Control was achieved using PVCS Version Control Software, the logical schema was stored and the physical database schema was generated using Erwin Software and the application documentation was done using MS-Access.
- The application was developed using the following: Informix Online 7.00/7.10, ESQL/Dynamic SQL, Informix 4gl Version 6.00/6.01, Unix SVR4/ DYNIX, Unix Shell Scripts, Awk Scripts, PVCS Version/Configuration Manager, MS-Windows 3.11, Netware v3.12 , CC:Mail for Workgroup interaction, TCP/IP and TNVT for PC-Host connectivity.
- Responsibilities included running a full or incremental compilation of SC CSES programs upon request of the project development team.
- Involved in the enhancement, maintenance and fixing bugs of the SC CSES programs particularly on the Case Initiation and Interstate (CSENet) Case modules.
- Also responsible for the modification of a more user-friendly on-line help text for SC CSES users.

01/96 – 01/96　　　Equitable Banking Corporation (Equitable Banking Technology Management Department)
　　　　　　　　　　　Title: **Freelance Software Developer**

- The Remittance System is developed to provide an automated solution in speeding-up the remittances made in several bank offices of Equitable Banking Corporation in the Philippines as well as within the Asia-Pacific Region.
- Data entry programs and reports are done in a Graphical-User Interface (GUI) Client/ Server environment using the PowerBuilder and the background processing programs were developed using the INFORMIX 4GL/SQL Triggers and Stored Procedures.

Experience: Continued

- Responsible for the development of the database synchronization process among the accounts and transaction data through Informix-4gl triggers and stored procedures.

08/94 – 08/95	Contract Services Firm/ Assigned to: National University Hospital Title: **Informix-4GL Senior Programmer/Analyst**
08/90 – 08/94	Unidata Corporation Title: **System Analyst/Programmer, University Plans, Inc (UPI), Mar 1994 – Aug 1994; Analyst/Programmer, San Miguel Corporation, Jun 1992 – Feb 1994; Programmer, Rustan Commercial Corporations (RCC), Dec 1991 – Jun 1992; Jr. Programmer/Trainer, Unidata Corporation, Aug 1990 – Dec 1991**

Classification #6 OSCAR Senior Application Programmer Analyst

PROFILE

Accomplished IT professional with twenty-three years of experience as a programmer analyst, both on staff and as a consultant. Extensive background in analyzing, designing, coding, debugging, testing, implementing, and maintaining various NATURAL and COBOL mainframe, AS/400 COBOL, and PC based computer systems.

SUMMARY OF SKILLS

Applications:	Child Support, Financial, Insurance, Logistics/Supply, Manpower, Manufacturing, Sales/Marketing
Operating systems:	z/OS, OS/400, Microsoft Windows
DBMS:	ADABAS, DB2
Languages:	ADA, AS/400 COBOL, CL, COBOL, JCL, NATURAL, SQL
Software:	Microsoft Office, N2O, Predict, TSO/ISPF, TSO/SDSF, Publisher, EntireX, Computer Associates DB2/Platinum (RC/Update, RC/Query, PRF)

EXPERIENCE

CDI Corporation - WV Bureau for Child Support Enforcement OSCAR - Charleston, WV   Dec 1999 – Present

Contracted to perform modifications and enhancements for both online and batch programs for West Virginia's IV-D child support enforcement system to achieve PRWORA federal certification. Worked on additional system enhancements to improve functionality and support for meeting federal and state IV-D requirements, which included rewriting and maintaining the child support order system, converting their mainframe child support legal and administrative forms printing system to a web-based form generation subsystem (Formquest) using FormQuest Publisher and COBOL/DB2 stored procedures. Maintained DB2 tables using RC/Update, RC/Query and PRF.

Mainframe - z/OS, TSO/ISPF, TSO/SDSF, JCL, COBOL, NATURAL, DB2, SQL, Predict, EntireX, Computer Associates DB2/Platinum (RC/Update, RC/Query, PRF).

AVX Corporation – Myrtle Beach, SC   Jul 1998 – Nov 1999

Contracted to perform modifications and enhancements for both online and batch programs for AVX's sales and marketing systems. Rewrote NATURAL programs from report to structured mode. Replaced COBOL calls with NATURAL programs. Analyzed, coded and tested AVX's Radio Frequency Bar Code system. This new manufacturing subsystem uses a bar code scanner to keep track of inventory being stored or retrieved from a warehouse.

Mainframe - z/OS, TSO, JCL, NATURAL, ADABAS, N2O.

NASA - Marshall Space Flight Center – Huntsville, AL   Aug 1997 - June 1998

Contracted to perform modifications and enhancements for both online and batch programs for NASA's Supply Management System (NSMS). Wrote a new online subsystem which gave NSMS the capability to receive a file containing Flight Hardware Part information and allow NSMS through a batch process, to reserve, issue or procure the parts needed by the engineers that don't have access to the online system.

Mainframe - z/OS, TSO, JCL, NATURAL, ADABAS.

Policy Management Systems Corporation (PMSC) – Blythewood, SC   Dec 1995 - July 1997
Worked as staff on PMSC's Property & Casualty insurance systems as a programmer analyst for multiple customer accounts. Responsibilities included: analyzing customer technical issues; maintaining their libraries; being on-call for daily cycle abends; as well as supporting the customer on-site. Other responsibilities included designing, coding, testing, implementing, and documenting online and batch COBOL programs that covered numerous lines of businesses for our insurance clients.

Midrange - OS/400, AS/400 COBOL, CL.

U.S. Marine Corps - Information Systems Management Division (ISMD)   Sept 1991 - Nov 1995
                    Camp Lejuene, NC

Financial Systems
Served as the Financial Lead Analyst programmer with responsibilities in personnel, project, and training management.

Supervised 5 Marines and coordinated all financial programming activities, which included systems for the Marine Corps Southeast Region as well as maintaining these systems as one of the on-call programmers by troubleshooting nightly batch abends.

Developed and implemented major enhancements for the Headquarters Marine Corps sponsored local Standard Accounting Budgeting and Reporting System (SABRS).

Provided analysis, designed, coded, tested, implemented, and documented programs for the Defense Civilian Pay System. This application enabled the Base Comptroller at Camp Lejeune to monitor the pay of 1600 civilians currently employed by the base.

Analyzed, designed, coded, tested, implemented, and documented ADA programs for the ISMD phone system. This PC based system is an automated tracking system that captures all telephone calls made from within the ISMD; extracts the chargeable calls and generates a report for a specified period of time.

Mainframe - z/OS, TSO, JCL, NATURAL, ADABAS.

Logistics Systems
Assisted in the design, coding, testing, implementation, and documentation of the Automated Requisition System using online and batch programs for this menu driven system. Converted COBOL programs to NATURAL. Coded and implemented test JCL along with production JCL necessary to run both COBOL and NATURAL programs in batch mode.

Mainframe - z/OS, TSO, JCL, NATURAL/ADABAS.

Manpower Systems
Provided continued enhancements and changes for Camp Lejuene's Military Personnel System and the Dependent Information online system.

Mainframe - z/OS, TSO, JCL, NATURAL/ADABAS.

EDUCATION

Mohawk Valley Community College
Associate in Applied Science Degree - Data Processing, Programming & Systems

COBOL Programming	USMC/Computer Sciences School
NATURAL 2 Basic	USMC/ISMD
ADA Programming	USMC/Computer Sciences School
NATURAL 2 Intermediate	Software AG
Software Requirements, Analysis & Specifications	Technology Exchange
Software Quality Assurance	Technology Exchange
Software Project Management	Technology Exchange
EntireX	Software AG

AWARDS

Honor Award for Outstanding Academic Achievement – COBOL Programming Course
The Armed Forces Communication & Electronics Association

Certificate of Achievement for contributions to West Virginia to achieve federal PRWORA Certification
West Virginia Bureau for Child Support Enforcement

Classification # 7 OSCAR Application Programmer Analyst

EXPERIENCE SUMMARY:
20+ years of Information Technology experience in Software Development for large companies and state government agencies. Utilizing Software AG's Natural as core software development platform since 1990, including **12 years of Natural/DB2** and 7 years of Natural/Adabas, **20+ years of TSO/ISPF and JCL**, 10+ years **Computer Associates-DB2/Platinum - RC/Update, RC/Query, PRF** tools, **8 years of Datalect's FORMQuest and Publisher**. Software development experience has been mainly in an IBM MVS or z/OS environment using TSO, JCL and CICS and other mainframe-based tools extensively.

TECHNICAL SKILLS:

Applications and Systems:
Child Support IV-D (12 years), non-IV-D state Government (1.5 years), Public Utilities (4 years), Manufacturing/Retail/Distribution (9+ years)

Mainframe Programming Languages
Natural/DB2 (13 years), Natural/ADABAS (7 years), MVS JCL **(20+ years)**, COBOL II, PL/I, CULPRIT, Easytrieve Plus

Mainframe Tools
TSO/ISPF (20+ years), **Computer Associates DB2/Platinum - RC/Update, RC/Query, PRF (10+ years); Software AG tools: EntireX (6 years),** CONSTRUCT (3 years), PREDICT, PAC; CA7; IBM Alforms (7 years); QMF; IDMS DB/DC (5+ years); ADS/O; CICS; INDUS Passport; Endeavor; NDM; Fileaid

Mainframe Environments
IBM z/OS, OS/390, MVS, 741, 3090-XXX, 308X, 4381 CPU's. Xerox laser printing systems

EDI Tools
Connect:Mailbox, SuperTracs, EDI*BENCH, GEIS, ADVANTIS

EDI Documents
Transmitting and receiving various versions of EDIFACT/ANSI-standard EDI documents (810, 820, 824, 850, 855, 856, 997). Use of EDI 820 for ACH and Federal Wire Electronic Funds Transfers.

Personal Computing and Internet Tools
Microsoft Office tools, including Word, Excel, Access and Outlook (multiple versions through Office 2013); Windows7/Vista/XP/NT/2000/98/95; MS DOS; VB.net; WordPerfect; Lotus 1-2-3; HTML; Adobe Photoshop; MS Internet Explorer

EXPERIENCE:

CONSULTING EXPERIENCE:

CDI Corporation – West Virginia Bureau for Child Support Enforcement
September, 1999 – March, 2001; September, 2004 – April, 2015
- Successful **FORMQuest** implementation – 3.5 year conversion of OSCAR mainframe-based form printing to web-based solution, using Datalect's FORMQuest (9 years), FORMQuest Publisher (7 years), Software AG's EntireX. Since implementation in February, 2009, provided post-

implementation support enhancements mostly of Child Support Federal, Legal and Administrative forms and packets **(12 years)**, including generating FORMQuest forms in batch mode. **Total FORMQuest experience of 9 years.**

- Performed analysis, design, development, testing, implementation and support for the following **(12 years):** Enhanced the State of WV's **OSCAR Child Support** computer system, a **IV-D** computer system **(12 years)**, to comply with federal PRWORA requirements. Additional Federal certification requirements and other enhancements including: **US Postal Service's Address Change Service (ACS) (8 years),** License Suspension/Denial, Financial Institution Data Matching (FIDM), development of numerous legal forms using **FORMQuest**, Publisher, IBM Alforms and AFP.
- Maintenance and enhancements performed using **Natural/DB2 (12 years), CA-DB2/Platinum (RC/Update, RC/Query, PRF) (12 years), IBM Alform, JCL (12 years)**, TSO (12 years), Mobius/Document Direct, IBM AFP batch form printing. Also used various Microsoft, Lotus and Novell desktop applications extensively, including MS Excel and MS Word.

IPC Technologies, Inc. – Virginia Retirement System (VRS)
July, 2003 – June, 2004

- Maintain, enhance and support **Natural**/Adabas Retirement System for the Commonwealth of Virginia. Technical environment and tools used: **Natural**, Adabas, CONSTRUCT, TSO, **JCL**, Predict.
- Serve as part of a maintenance team, aggressively attacking the backlog of problem requests. My programming efforts were focused on supporting the VRS member services department. Significant accomplishments include automating the process to load, update and disposition accounts/funds of members with dormant or inactive accounts.

Food Lion, LLC
February, 2002 – November, 2002

- Maintain, enhance and support Retail Pricing and Promotion **Natural**/Adabas systems. Technical environment and tools used: **Natural**, Adabas, CONSTRUCT, **DB2**, TSO, **JCL**, Predict, IBM S/390.
- Duties include: Support marketing and promotion management clients, implement enhancements, quality assurance, performance tuning, thorough documentation and 24-hour on call support.

CEP, Inc. – R.J. Reynolds Tobacco
March, 2001 – November, 2001

- Extensively use **Natural** with **DB2** and Adabas to maintain, enhance and support RJR's Partners Sales and Marketing system. Maintenance and enhancements were performed using primarily **Natural/DB2** in an IBM mainframe environment with various other interfacing platforms. Technical environment included the following tools: **Natural** 2.2.8, **DB2**, Adabas, **JCL**, PAC, Endeavor, Predict, CA7.
- Partners provides reporting on customer distribution/inventory volumes and the front-end data and processes for issuing incentive payments to strategic customers. It is a highly visible and very volatile system made up of 400-500 **Natural** objects (50% online, 50% batch). 24-hour on call support.

CDI Corporation – CACI Account at Virginia Department of Medical Assistance Services (DMAS)
March, 1999 to August, 1999

- Data Exchange Project Lead for the Independent Verification and Validation of the Medicaid Year 2000 Project.
- Interviewed subject matter experts for application background information necessary to determine Y2K-compliance testing requirements and created an inventory of external data

exchanges. Performed independent research using various sources, including the internet, for X12 EDI and NSF compliance information.
- Performed analysis and designed and developed a database system for this inventory using Microsoft Access 97, including queries, reports and a small data entry and reporting user interface using forms.
- Tools used on this project: MS Access 97, MS Word 97, MS Excel, Windows 95, Eicon Access, Novell GroupWise, MS Internet Explorer, TSO, Librarian, **JCL**, COBOL.

Modis Consulting – Duke Energy
February, 1998 – February, 1999
- Maintenance and enhancements of Workflow application using various tools including **Natural**/Adabas and PL/I.
- Year 2000 cleanup and remediation of various application components.
- Developed Adabas-to-SYBASE data extract and load.

CDI Corporation - IBM Account at Continental General Tire
August, 1997 – February, 1998
- As the EDI Project Leader, I was the primary contact for all EDI and trading partner issues. I was responsible for managing the maintenance and development workloads of up to 3 consultants on the EDI staff. This is a mature, high-volume EDI environment with many very large trading partners (GM, Ford, Wal-Mart and Sears to name a few). High volumes of Invoices (810) PO's (850) and ASN's (856) were transacted daily via direct and Value Added Network (GEIS and ADVANTIS) communications. EDI translations were done with a combination of IMS-based COBOL II programs and GE BENCHMARK and MAPMATE. These programs interfaced closely the SAP system. Gained extensive experience in the use of Sterling Commerce's SuperTracs communications software.
- Developed project plan to convert from SuperTracs to Connect:Mailbox. Attended formal Sterling off-site training in Connect:Mailbox.

Northeast Utilities
August, 1994 – August, 1997
- Led the technical effort to analyze, design, develop and implement an Electronic Funds Transfer (EFT) system using ANSI-standard Electronic Data Interchange (EDI) documents. My involvement in this project spanned all activities from requirements gathering to implementation. This involved interfacing with representatives from NU's Treasury and Accounts Payable departments and EFT representatives from Shawmut Bank. The technologies involved were **Natural** and **COBOL** programs and General Electric's proprietary EDI software BENCHMARK.
- Performed various enhancements and modifications to the corporate on-line time entry system using **Natural/DB2 (2 years)**.

Perdue Farms, inc.
April, 1994 - August, 1994
- Designed and developed a Freezer Inventory reporting subsystem. This involved a series of 11 on-line and batch programs all of which were developed using standard or customized CONSTRUCT models.
- Designed and developed a Sales & Marketing reporting subsystem. These reports summarized customer sales data by sales period and location and were used to help support a $11 million distribution center expansion decision.

EMPLOYMENT EXPERIENCE

United Technologies – Otis Elevator Company
May, 1989 to April, 1994
Lead Programmer/Analyst
Analyzed user requirements and documented detail functional specifications for an integrated and portable Parts and Service Distribution System. Developed vital Customer Order and Warehouse Management modules using the **Natural**/ADABAS tools. Analyzed, designed and developed an integrated Billing system using **Natural**/ADABAS with CONSTRUCT. Supervised and administered the workload for junior staff members on the Billing project. Also conducted internal training classes on **Natural**/ADABAS, PREDICT and Excelerator.

Allied-Signal Aerospace, Bendix Cheshire Operations
August, 1987 to May, 1989
Senior Programmer/Analyst
Analyzed, designed, developed and supported all IDMS manufacturing applications. Implemented Cullinet's Bill Of Materials, Inventory and Shop Floor Control Modules. Installed software and hardware for bar coding data collection system to support Shop Floor Control. Led the technical efforts in these implementations and made valuable recommendations to all levels of management.

Mead Corporation
Dayton, Ohio
March, 1984 to March, 1987
Programmer
Developed and modified CICS and batch IDMS database applications using PLI as the host language. Interacted with users and senior analysts to resolve problem requests. Played a major role in developing a CICS-based Order Entry system and conducted training sessions to groups of twenty or more users.

EDUCATION:

Bachelor of Science in Computer Information Systems
DeVry Institute of Technology; Columbus, Ohio
Dean's List and Presidential Honor Society (all terms)
Graduated with honors - October, 1985

Classification #10 - Application Oracle Database Administrator

EXPERIENCE : Overall 24.5 Years
Coldfusion, FuseBox, Javascript – 7 yrs
PowerBuilder - 15.5 Yrs
Data modeling – 15 yrs

Contact : (304) 382-8458 (Cell)

SOFTWARE :
AJAX (Javascript, XML), ExtJs, ColdFusion, Fusebox 5, Java, UML, PowerBuilder
10.2/9/87.0/6.5/6.0/5.0/4.0, PFC, PowerTool, Visual Basic 5.0

Databases :
Oracle 11/10/9i/7.x, Sybase 12.5, Sybase Adaptive Server Anywhere 6.02, SQL Server 6.5/6.0, Watcom SQL

Case Tools/Project Mgmt./Version Control/Others :
ERWin 2.1, Turbo Analyst, QA Works, MS-Project, StarTeam, Visual SourceSafe, PVCS, FrameWork, Salesvision 3.0, Bcube, Clipper 5.2d/87, FlexFile, Comix, Foxpro

Other Knowledge of Web Technolgies :
.NET, Java, Servlets, JDBC, Java Beans, EJB, XML

Roles : Analysis, Development, Project Management & SDLC.

Vertical Applications : Environmental Protection, Life Insurance, Sales Force Automation, Banking, Finance, Inventory Mgmt., others.

OS / Platform : Sun Solaris 8, HP-UX, Windows XP/NT/98/95/3.1, Novell NetWare, DOS

EDUCATION : BS (Physics)

CERTIFICATION : Certified PowerBuilder Developer

PROJECTS :

State of WV - Dept. of Environmental Protection (DEP)
April 2005 – Till Date

AIRTRAX 2
Airtrax 2 was developed based on the existing Airtrax 1 system currently in use. In addition to the base functionality, it also adds several enhancements. Airtrax II is a new Rich Internet Application developed using AJAX, ExtJs, ColdFusion, FuseBox and Oracle to replace a legacy application.

The infrastructure allows developers to create Desktop-style windows using Web and Object Oriented Technologies.
It includes Database manipulation, Grid-Style data tables, Security, Validations, Unit Testing, Tab Navigation, etc.

- Worked on Coldfusion MX9, AJAX, ExtJs and custom tab controls, google maps API
- Extensive use of Oracle PL/SQL (pkgs, triggers & pl/sql code) including tuning queries.
- Managed reporting of data to the EPA via the Universal Interface and now ICIS (CDX)
- Works with business users to analyze requirements and produce deliverables
- Extensive use of Powerbuilder for data migration
- Reverse engineering of some Foxpro code (Quick Info & others)
- Extensive use ERWin Datamodeler to design and maintain the datamodel
- Participates in JAD meetings when enterprise-wide work is involved.

Environment: Oracle, AJAX (Javascript, XML), ColdFusion, Fusebox, Java, UML

ERIS

Environmental Remediation Information System, as the name suggests is an enterprise-wide solution managed by the DEP across 9 offices and several divisions (Water, Waste, Mining, Air Quality to name a few). Each division accepts several applications that get approved into Permits. Applications are broken into Permit type & sub-types. And each of these can have several Outlets/Inspectable units. Each Outlet can be monitored and is associated with different entities. The system contains over 600+ tables. At a higher level, Applications can be entered directly by customers via a ColdFusion internet interface. Our users also enter them through ERIS. Based on the Application (Type), a delegated business object takes care of its semantics. Complexity is increased manifold due to stringent EPA (Federal) rules that require intensive manipulation and validation prior to submission. Submission is done via Flat files in a specific format, or via CDX - an XML based data exchange.

Environment : Powerbuilder 10, Oracle (PL/SQL) 9i, , Visual Source Safe(VSS), SQL Navigator.
Role :

- As a Software Consultant, worked on analysis of new/change requirements, design and implementation for **Water (OWR) and Waste (OWMS- AST & UST) divisions**.
- Extensively used in-house classes within the ERIS library framework, PL/SQL in Triggers, procedures & packages to maintain business logic.
- Designed & built a comprehensive system to convert and manage Federal (Haz Waste) data within the DEP.
- Worked with Discharge Monitoring & Limits - one of the most complex parts of ERIS.
- Worked with reporting that used a mixture of RTF-s & Word (OLE).
- Day-to-day resolution of Production issues.
- Provide technical assistance to DEP employees when required.
- Took the initiative to provide a solution for automated ERIS deployment to 3 local and 6 remote servers.

State of Michigan - Michigan Dept. of Transportation (MDOT)
September 2004 - April 2005
SafeStat
This is a product that was a rewrite of two applications / business functions : Traffic & Safety and Road

Geometry & Traffic Inventory. CAD diagrams that display such geometry can be accessible by using Bentley Redline third party software. Safestat links with a centralized MAP (remote) database to process requests and convert them into a job on the MAP side. An interface also is provided in Safestat that imports High Crash data for locations. The analysis of such data can then result in a Safety implementation using Safestat. The process starts with a request that can have 1-n Studies, one of which gets selected as an alternative. This then becomes a project that gets linked to a cost agreement that again gets linked into the finance system.

Environment : PB Ver 9, Oracle (PL/SQL) 9i, SQ, PFC, Merant Version Mgr, SQL Navigator.
Role :
- As an Senior Analyst Programmer, worked on analysis of new requirements, design and implementation.
- Extensively used PFC, PL/SQL in Triggers, procedures & packages to maintain business logic.
- Creation of new tables, views and synonyms to be in compliance with the layered Data Security & Access model in MDOT.
- Worked with remote databases and liaisoned with the MAP & SCAS Teams (Signal Cost Accounting system).
- Used SQL Navigator to create Oracle database objects and its maintenance and debugging.
- Upgraded, Administered and Versioned PB & Oracle code using Merant Version Manager (earlier was in PVCS).
- Regular maintenance of Production issues in parallel with new changes which involved an impact analysis and data fixes where necessary, or problem analysis of earlier data migrations to find a pattern for correction.

MTSIS (Michigan Traffic & Safety Information System
MTSIS maintains a complete, up-to-date inventory of all traffic signs in use on MDOT roadways. MTSIS also allows MDOT staff and contractors to enter information about signs and/or sign supports that need to be installed. This information includes the location, color, size, material, message, and support type. In addition, an action can be recommended for the sign, such as replacement, removal, salvage, etc. The System data may be downloaded to a laptop computer, so engineers studying sign needs may then access the data while they are working in the field.

Environment : PB Ver 9, Oracle (PL/SQL) 9i, SQ, PFC, Merant Version Manager, SQL Navigator.
Role :
- As an Senior Analyst Programmer, worked on analysis of new requirements, design and implementation.
- Reverse engineered the data model using ERWin and created modularized subject areas to depict table relationships per key business processes.
- Tuning of SQL reports given the volume of inventory in high traffic areas.
- Regular maintenance of Production issues in parallel with new changes which involved an impact analysis and data fixes where necessary, or problem analysis of earlier data migrations to find a pattern for correction.
- Bug tracking and resolution using PVCS Tracker.

Taliant, CO
September 2003 - August 2004
PowerComp
PowerComp is a comprehensive customized Workers Compensation solution in use by several

government clients across the nation. Its linked systems comprise of Claims, Policy, Router/WorkFlow & System Administration. Since they share a lot of common functionality across clients, a base code system is in place and extensions exist for each client. The application has been architected to be deployed in a 2/3 tier environment allowing controller objects to be be registered and deployed on a separate business tier. Boundary objects handle data management interacting with the database (model) through controllers. Extensive logic is encapsulated on the back-end using PL/SQL.

In addition to online validation and implementations using triggers and packages, batch commands run in daily and monthly cycles to process various entries. Workflow events are generated throughout the application to indicate a business activity. These are picked up by a router application and sent to the correct department. Business modeling for the system is done using Rational Rose Modeler.

Environment : PB (Version 9, 8 & 7 for different clients), Oracle (PL/SQL) 9i, 8i, PFC, StarTeam, Rational Rose

Role :
- As a Developer, worked on the Claims, Policy & System Administration applications for RI & PA.
- Extensively used PL/SQL, mutating triggers and modularized packages to maintain business logic.
- Used exhaustive Powercomp tiered classes in addition to the PFC to promote standardization and reuse.
- Maintained changes to the model, to document the new classes that I created and their relationships using Rational Rose.
- Created Oracle interfaces, to validate and import data from an external system.

State of New Jersey
State Grand Jury
June 2003 - August 2003
This system tracks valid participants of the Jersey counties that are eligible for Jury duty. Creation, Scheduling and tracking of the jury panel were handled by the application.

Role : Developer - New changes & enhancements. Creation of a database model using ERWin.
Environment : PB 7, Sybase 12.5

MetLife, NY
Marketing And Sales Support System (MASS, WordServer, CalcServer)
June 2000 - May 2003
MASS a multi-tiered application was developed by MetLife to manage the validation and creation of insurance coverages such as Long/Short Term disabilities, Dental & Life for small businesses. The application is load balanced using Local Director on 10 Terminal Servers, and is distributed on 12 Sybase database servers in 6 regions across the nation. Premiums/rating information was handled by CalcServer (a PB application) that monitored and processed the calculation request queue generated by MASS. MASS requested proposals/quotations from WordServer (a PB application) that monitored the document request queue from MASS, generated and displayed Word documents using Word Basic calls & OLE. These documents were compressed into BLOBS for storage/retrieval in MASS.
Role:
- As a senior developer was involved in design, coding, debugging & unit testing of the application.
- As a Principal architect/designer and programmer, created the base classes and its integration into an application framework for MASS-Lite (a major MASS release).
- Was a Key designer/programmer for MASS-SoldCase interface base classes, post-sale validation and data transmission on Oracle 8.1.
- Extensively used PFC as the foundation with custom NVOs for business implementation.

- Used TreeViews along with tab-folders that were associated with custom business objects.
- Used external functions to zip/unzip Quotes on the fly and stored them as Blobs.
- Used Datawindow Services for Row manager and Row Selection Linkage Service Multi-Table Update, and DropDown Search.
- Interfaced MASS with WordServer to create correspondence using Word Basic calls for Word 95.
- Used OLE to enable MASS to communicate to other applications.
- Extensively used Sybase 12.5 to write stored procedures and triggers.
- Migrated and enhanced MASS to PowerBuilder 7.
- Used PVCS and later StarTeam for version control.

Environment: PowerBuilder 7, PFC, Sybase 12.5, Oracle 8.1, PVCS, OLE, WordBasic for Word 95, Sun Solaris 8.

Department of Housing Preservation Development (HPD), NY
February 2000 - May 2000
The project scope involved development of an application that enabled HPD track activities such as inspections and violations involving housing plans, and also track development activities undertaken by the government authorities in the 5 boroughs of New York City. It was developed using PowerBuilder 6.5/5.0 and Oracle 7.3.
Role:
- As a senior developer was part of a seven-member team involved in development of the system.
- Responsible for the Lead Survey module, system study, and enhancement of SFA
- Developed front-end screens using PowerBuilder 6.5/5.0 in conjunction with an in-house engine.
- Developed nested and composite reports using PowerBuilder 6.5.
- Was involved in the migration of the system from PowerBuilder 5.0 to 6.5.
- Involved in coding, debugging & unit testing of the system.
- Extensively used PL/SQL to write stored procedures and triggers.

Environment: PowerBuilder 6.5/5.0, Oracle 7.3, Windows 98

Harcourt Brace INC., FL
Sales Force Automation (SFA 4.0)
July 1999 - January 2000
Harcourt Inc., is a major publishing house with offices all over the USA. SFA was developed to cater to different divisions of Harcourt (HBCP, HBSP, HRW & now HHS). The scope of the project involved providing an application to the sales force in order to assist them in booking orders remotely from anywhere in the US. The sales force on the field would book orders through their laptops and then replicate the information to the Adaptive Server using Lotus Notes VIM protocol.
Role:
- As part of a six-member team was involved in the development of SFA.
- Responsible for the entire development of the Activity & Committee modules across all Business units, and the System Administration module.
- Developed front end Screens using PowerBuilder 6.5/6.0 and Salesvision 3.0.
- Extensively used multi-tiered Business & Support Object delegation to perform business implementation.
- Used Datawindow Services for Row manager and Row Selection Linkage Service Multi-Table Update, and DropDown Search.
- Involved in coding, debugging & unit testing of the system.

- Extensively used Sybase Adaptive server to write stored procedures and triggers.
Environment: PowerBuilder 6.5/6.0, PFC, Salesvision 3.0, Sybase Adaptive Server
Anywhere 6.02, Windows 95

Ace Technosoft Pvt. Ltd
January 1994 - June 1999
Ace Technosoft Pvt. Ltd., a 100% export oriented software consultancy firm developed business and systems applications for their clients locally and overseas. Was involved in the design and development of the following projects for Ace:

National Stock Exchange of India (NSE)
Contract Monitoring System (CMS)
April 1999 - June 1999
NSE caters to various types of financial markets such as the Capital market Wholesale Debt market, Futures and Options Markets. CMS is designed and developed to assist NSE to follow-up for collections, past dues and post disbursal documents related to capital market with ease.
Role:
- Responsible for system study and the user requirement analysis.
- Developed front end Screens using PowerBuilder 6.5/6.0 and PFC.
- Used key PFC features such as Application Services, Error Service, Data Caching for validating the user, managing user warnings and optimizing data access.
- Extensively used Datawindow services on the project.
- Used Global Aggregate Services for DateTime and String manipulation.
- Wrote Stored Procedures and Triggers using Oracle 7.x.
- Involved in coding, debugging, testing and implementation of the system
Environment: PowerBuilder 6.5/6.0, PFC, Oracle 7.x, Windows NT/95

Bank of India
Stationery Management System (SMS)
September 1998 - March 1999
The objective of the SMS system was to computerize the entire stationery management procedure of the bank and its branches in India. The system was developed using PowerBuilder 6.0, PFC, and SQL Server 6.5 as a backend.
Role:
- As a Project Leader, led a team of six members.
- Responsible for project planning, functional requirement specifications and design documentation.
- Used ERWin for modeling the database, to generate generic Edit Masks, Display formats and Validation rules for the Client.
- Extensively used Tab controls, drill-down TreeView controls for providing Branch hierarchies
- Used polymorphism/function overloading, RTE controls to generate instruction reports.
- Used Error Service with database logging to provide application error handling with error logging.
- Extensively used PFC services like Datawindow, application and global services.
- Used OCX controls for progress bar displays.
- Used Related Nested reports and Composite reports to display Branch orders for various stationery items in a single report.
- Responsible for writing stored procedures using SQL Server 6.5.
- Responsible for performance tuning, creating database Transaction and Log devices, maintaining user groups and their permissions.
- Used HTML to generate and display Requisitions from branches.

Environment: PowerBuilder 6.0, PFC, HTML, ERWin, SQL Server 6.5, Windows 95/NT

European Investment Bank, Luxembourg
Force Prets
June 1998 - August 1998
European Investment Bank, the European Union's financing institution contributed towards the integration, balanced development and economic and social cohesion of the member countries. Force Prets was developed as an offshore project to efficiently handle the loan processing, contract execution, disbursement, interest calculation and cross-currency handling.
Role:
- Involved in the capacity of a Senior Programmer as part of a nine-member development team.
- Responsible for the Coding and Unit testing using PowerBuilder 5.0
- Used PFC Datawindow services such as multi-table updates, master detail linkage services, row manager services and PFC tab controls.
- Used the corporate class library - FrameWork for the development of several applications.
- Extensively used inheritance of FrameWork Windows, Datawindow Controls (1-1, 1-n, 1-n-n cardinalities), Tab Folders for a consistent interface.
- Extensively used encapsulated NVO Business Objects to delegate/perform business validations and data access specific to the business object.
- Used Function overriding and Function overloading to change the default FrameWork behavior for cases like pre-save data validations and customized Pick Lists (Help).
- Used database triggers and stored procedures to enforce business rules.
- Used Views to control and access data from the corporate database.
- Used global DataStores for generating cross-currency reference tables.
- Used PVCS for Version Control.
Environment: PowerBuilder 5.0, FrameWork, PFC, PVCS, Oracle 7.3, Windows NT/HP-UX

SANOMED MedizinTechnik, Hamburg
SANOMED
December 1996 - May 1998
Sanomed MedizinTechnik Hamburg specialized in the sale and repair of Hearing Aids and related items. The system was developed to support the user by an automatic configuration of components. Migrated the existing systems from PowerBuilder 5.0 to Visual Basic 5.0 and subsequently added new functionalities using Visual Basic 5.0 and SQL Server 6.5.
Role:
- As a Project Leader, lead a 12-member offshore development team.
- Responsible for the on-site system-study in Hamburg.
- Responsible for Client interface and Project Management
- Used MS-Project 4.0 for managing Change Requests & Progress Reports.
- Created Functional Requirement Specifications and Design Documentation.
- Used Erwin 2.1 for Logical and Physical design.
- Extensively involved in porting applications from PowerBuilder 5.0 to Visual Basic 5.0.
- Wrote triggers using SQL Server 6.5 for cascaded deletes on cancelled orders.
- Created stored procedures to service purchase requisitions.
- Responsible for creating database devices and managing users.
- Used QA Works for Automated testing.
- Responsible for Design Reviews, Unit and integrated testing
Environment: PowerBuilder 5.0, Visual Basic 5.0, Spread, Bcube, ERWin 2.1, QA Works, MS-Project 4.0, MS-SQL Server 6.5, Windows-95/NT

KB-Office, Hong Kong
SmartOffice Ver. 2.0
June 1995 - November 1996
SmartOffice was developed with an objective to provide flexibility in terms of Sales and Purchase order processing. Developed the system offshore using PowerBuilder 4.0 and SQL Server 6.0.
Role:
- As a Programmer, involved in the design and development as part of an 8-member team.
- Used Erwin for application design and data representation.
- Extensively used the PowerTool Class library for implementing master detail relationships, pre / post save validations and tab control interface.
- Designed the application for Cross-compatibility with SQL Server 6.0.
- Wrote stored procedures using SQL Server for frequent data access.
Environment: PowerBuilder4.0, SQL Server 6.0, Windows3.11/NT

Various DBMS projects (September 1990 - May 1995)

VAST (August 1994 - May 1995)
VAST, business automation software catered to the needs of manufacturing units and retail outlets.

The Banker (January 1994 - July 1994)
The Banker an integrated banking system was developed to computerize the daily operations.

ADMATE (February 1992 - December 1993)
ADMATE an integrated media accounting package developed for the advertising industry.

DIM (November 1991 - January 1992)
DIM was developed to manage diamond inventory for the jewelry industry using packets and lots.

HEADWAY (September 1990 - October 1991)
Headway recorded and provided an analysis of results for candidates evaluated on mental tests.

Role: Programmer/Analyst involved in design, coding and testing.

Environment: Clipper 5.2d/87, FlexFile, ClReport, Comix, NetLib, NetWare 3.x/DOS

Classification # 13 Sr. COGNOS Analyst/Project Manager

Profile

Experience Summary	Twenty one years experience from Developer, Systems Analyst, Project Leader, Technical Lead, Database Administrator, to Project Manager. JavaScript, HTML and CSS instructor. In-depth experience in design and development of software and web applications using standard software methodologies. Have worked with strict standards using Software Configuration Management (SCM) and Capability Maturity Model (CMM) for Software. 5 years experience with leading and managing multiple teams and projects of more than 10 developers and analysts. 19 years experience in designing, developing, and maintaining enterprise systems using PowerBuilder, Cold Fusion, Oracle, MS SQL Server, Informix, and Sybase. 19 years experience in designing, modeling, and maintaining database schemas using ER/Win and PowerDesigner, working with thousands of tables. 15 years experience in client-server and multi-tier development. 15 years experience in object oriented analysis/design. 12 years experience in writing system specifications. 13 years experience with web development and design using ColdFusion, Ajax, JavaScript, and HTML.
Availability	Available

Key Skills

Proficient or familiar with a vast array of programming languages, concepts, and technologies, including:

PowerBuilder	Ajax, JavaScript, HTML	ER/Win, PowerDesigner	XML, SOAP, JSON/P
ColdFusion	Oracle, MS SQL Server	Informix, Sybase, DB2	Windows, UNIX, OS X
Ext-JS, Prototype, JQuery	Adobe CS5 Suite	Visual Source Safe	Merant, COGNOS
Data Warehousing	OLAP	PHP	

Education

1989 to 1993   **Bachelor of Science in Computer Science with Major in Information Technology**
De La Salle University, Manila, Philippines

Work Experience

CDI Corporation   **Full-time**
Technical Lead – State of West Virginia   **January 2007 to Current**
(ColdFusion, AJAX, Prototype JS, JavaScript, ER/Win, Oracle, Visual Source Safe)

- ✓ Redesigned system to a modern web-based systems using AJAX, ColdFusion
- ✓ Designed database schemas for the new system and made sure that tables link and correctly support other enterprise systems
- ✓ Redesigned database structure to use Oracle's XML features in storing and retrieving XML data
- ✓ Interfaced system to EPA to properly and securely ETL data in XML via SOAP
- ✓ Created a new development platform infrastructure to streamline and speed-up development
- ✓ Held meetings with users to make sure that the system correctly meets their needs and maintain the project timeline
- ✓ Worked with staff, reviewed their code, and delegated work
- ✓ Created detailed documentation of the systems
- ✓ Trained a group of developers to use the new development platform
- ✓ Peer tested new features from other team developers
- ✓ Trained users on the system

Kanawha Valley Community and Technical College   Part-time
Instructor – JavaScript, HTML, CSS   **January 2012 to May 2012**
(JavaScript, jQuery, AJAX, JSON, HTML, CSS, Firefox, Google Chrome)

- ✓ Teach students JavaScript programming, jQuery library, along with HTML and CSS
- ✓ Introduce students to web development trends like AJAX, JSON/P, and jQuery
- ✓ Share my skills with regards to best coding practices, pitfalls, and techniques
- ✓ Motivate and challenge students to enhance their programming skills

Consulting Company   **Full-time**
Sr. Analyst Developer   **October 2006 to January 2007**
(PowerBuilder, PowerDesigner, ColdFusion, Sybase, Merant Version Mangager, Merant Tracker)

- ✓ Enhanced current Enterprise system to include additional features
- ✓ Designed a new module to automate the current manual quality assurance process
- ✓ Created object-level documentation as well as created UML Sequence Diagrams to show window and object flow
- ✓ Documented new features, revisions, and created test scripts for peer and QA testers
- ✓ Peer tested new features from other team developers

Consulting Company   **Full-time**
Sr. Analyst Developer   **February 2001 to October 2006**
(ColdFusion, Oracle, AJAX, PowerBuilder, ER/Win, MS Source Safe)

- ✓ Migrated system to a new web-based systems using AJAX, ColdFusion
- ✓ Worked as a liaison between the engineers, EPA, and IT department
- ✓ Used ER/Win to reverse engineer legacy x-base databases and enhanced the structure to add primary and foreign keys so as to work with Oracle
- ✓ Designed and created PowerBuilder programs to keep data synchronized between the two versions in preparation for parallel use
- ✓ Created XML rules to properly map applications to the main enterprise system
- ✓ Designed and developed the Confidential Business Information module to mark certain parts of the application confidential. Designed Oracle stored procedures and triggers to ensure security, and trap unwanted backdoor access.
- ✓ Designed and developed the customer comment module, allowing customers and employees add comments to specific parts of the application, privately and publicly.
- ✓ Designed the data migration system to automate data migration from legacy systems
- ✓ Performed several User Training sessions to train users on the new system
- ✓ Peer tested new features from other team developers

Colonial Mutual Group of Australia   **Full-time**
Project Manager   **1997 to 2001**
(PowerBuilder, MS SQL Server, PowerDesigner, MS Visual Basic, LifePro, Pervasive Scalable SQL)

- ✓ Strictly followed the Software Configuration Management (SCM) rules. Rigid standard procedures were in place based on the Capability Maturity Model (CMM) for Software
- ✓ Researched and implemented the Managed Care and Claims System as well as the Reinsurance System after testing the features thoroughly, based on the company's requirements
- ✓ Designed new systems by conducting numerous interviews with agents and actuaries
- ✓ Designed modifications to the system to accommodate the company's product line definitions
- ✓ Established links to company's different systems
- ✓ Developed systems for mobile use
- ✓ Conducted training sessions to the company staff
- ✓ Conducted training to development staff
- ✓ Held weekly staff and managers meetings
- ✓ Created weekly presentations to CEO to update the progress of the system

Jupiter Systems, Inc   **Full-time**
Project Manager   **1995 to 1997**
(PowerBuilder, PowerTool, PowerLock, PowerDesigner, ERwin 2.0, SQA, MS SQL Server, Oracle, Informix, Sybase, Merant PVCS, COGNOS)

- ✓ Supervised 20 employees composed of systems analysts, programmers, and trainees
- ✓ Oversaw major projects and sub-projects to make sure they are on schedule
- ✓ Mentored developers and reviewed coding practices and made sure they were at par with the company standards
- ✓ Developed complicated QA testing scripts to automate the testing of the system
- ✓ Used ER/Win to synchronize thousands of database tables and objects of clients

- ✓ Pre/Post-Sales Support Officer, Company Trainer
- ✓ Trained newly hired employees in PowerBuilder, PowerDesigner, SQA, Windows NT, and MS SQL Server Administration
- ✓ Held weekly staff meetings

Database Administrator   **1994 to 1997**

(Microsoft SQL Server, Oracle, Informix, Sybase, COGNOS, ER/Win, SQL)

- ✓ Acted as Database Administrator, Pre/Post Sales Database Support Officer
- ✓ Installed and fine-tuned database systems to clients
- ✓ Trained staff and clients in Windows NT, and MS SQL Server Administration, backup process
- ✓ De-normalized and created OLAP cubes in COGNOS for analysis reports
- ✓ Administered changes and synchronized databases from development, test, and production environments
- ✓ Optimized table structures and SQL queries to maximize performance
- ✓ Reverse engineered as well as documented logical and physical diagrams of databases

Developer   **1993 to 1995**

- ✓ Converted Clipper based Inventory Module to Informix 4GL for major client – Glaxo Inc.
- ✓ Developed in Unix environment using vi editor
- ✓ Administered Informix databases as well as created stored procedures and triggers
- ✓ Worked on-site with client to give support to the system

Training and Certifications

Formal Training	Advanced PowerBuilder
	Advanced ColdFusion
	XML and XSLT
	MS SQL Server Administration
	Capability Maturity Model (CMM) for Software
	Life and Health Insurance Products
Certifications	Microsoft Certified Professional – Windows for Workgroups
	LOMA 280
	LOMA 290

Classification #15 – Software Test Analyst

SUMMARY

Analytical and results-driven professional leveraging over 15 years of quality assurance experience testing financial and insurance applications following software development lifecycle (SDLC.)   Excel in working independently as well as in team settings where dedication, enthusiasm, and hard work are appreciated and good ideas are implemented to increase efficiency and decrease costs.   Core values include efficiency, effectiveness, and attention to detail, flexibility, dependability and commitment to excellence.
Areas of strength include:

- Test case writing
- Problem solving
- Collaboration

- Analytical skills
- Verbal and written communication
- Black box and White box testing

PROFESSIONAL EXPERIENCE

SAVANA, INC	Berwyn, PA	2015 – Present

Mortgage Processing Systems
Sr. Quality Assurance Analyst

Assist in establishing software quality standards. Use problem-solving techniques with a practical and analytical approach.

- Participate in all phases of the software development lifecycle.
- Participate in the planning, executing and tracking of implementation stages of software development projects
- necessary.
- Provide QA task effort estimates within confidence levels appropriate to the project stage.
- Assist in analyzing requirements to develop a written test plan.
- Utilize Quality Center, develop, maintain and execute test scripts and scenarios on assigned products
- assure product quality from a functional and qualitative perspective.
- Build, Maintain and supporting test environments
- Document track, and verify defects and enhancements.
- Work closely with senior staff members to assist programmers, business analyst and managers in effectively
- implementing quality software projects
- Work closely with application development teams to troubleshoot issues are determine quality solutions.

HEALTH PARTNERS PLANS	Philadelphia, PA	2013-2015

Health Insurance Processing Systems
Sr. Quality Assurance Analyst

- Worked with business analysts and programmers to complete manual testing for various lines of business including Medicare, Medicaid and CHIP.
- Utilized MS SQL Server 2008 to access database files, execute queries and updates to validate and modify data.
- Utilized insert statements to create varied data to add to database files.
- Validated file and report outputs using Beyond Compare and UltraEdit.
- Performed testing in various environments including Web App, SAS, and client-based applications.

- Created test documents and artifacts using MS Word and MS Excel.
- Checked in various documents into Seapine Surround SCM.

IPIPELINE	Exton, PA	2012-2013

Insurance Form Processing System
Sr. Quality Assurance Analyst

- Worked with project managers, business analysts, and programmers to complete manual testing for each sprint using Agile Methodologies for multiple insurance carriers.
- Utilized MS Visual Studio Team Foundation Server to access project files and review XML files.
- Created test documents and use cases for each sprint using MS Word and MS Excel.
- Performed integration, systems and regression testing prior to user acceptance testing.
- Performed functional testing for Web App in IE8, IE9, Chrome, Firefox, and Safari.
- Logged and tracked defects using JIRA to update issue statuses. Ran queries and generated charts and graphs to track outstanding defects and issues resolved.
- Lead retrospective meetings to discuss strengths and weaknesses of recent sprints.

BNY MELLON	King of Prussia, PA	2007-2012

Mutual Fund Billing and Accounting System
Sr. Software QA and Tester

- Worked with business analysts, systems analysts, programmers and customer service representatives to review project requirements, technical specifications, test strategy and approve test results for project completion.
- Studied various system functionalities including HSA, 529 billing, and ROA/LOI to test client specific projects. Analyzed modules to incorporate test cases if the system had interoperability capability between functions or used APIs to pass information to other modules and confirmed compatibility during End-to End testing.
- Created test plans based on project requirements which included detailed steps and necessary database parameter changes to create project specific data for manual testing and found specialized databases for test purposes to match client needs. Utilized MS Word and MS Excel to write and support the test document as well as updating it with the test results and supporting evidence.
- Analyzed project test scope and wrote QA Estimates to approximate delivery dates.
- Worked on various test environments including Desktop, Web App and a Legacy based system.
- Copied, restored, shrank and saved specialized databases using proprietary tools. Manipulated data records to create test scenarios.
- Generated database reports using SQL to predict expected results.
- Tested software on ALPHA platform updating test plans and documented defects found. Performed black box testing, in addition to attending code reviews and performing white box testing.
- Entered defects into various bug tracking systems including Clarity, JIRA and a proprietary issue tracking system.
- Utilized Lotus Notes to schedule test plan and test results meetings for the project team.
- Wrote QA Best Practices using prescribed department standards.
- As QA lead, assisted new QAs in process, methodology and tool usage.

SUNGARD	Wayne, PA	2004-2007 & 1990–1999

Bond and Certificate Accounting Systems
Quality Assurance Analyst

- Worked with project leads, systems architects and programmers to clarify project specifications, resolve discrepancies, run functional and non-functional tests with detailed end-to-end testing to deliver a robust product.
- Developed test plans using functional specifications and pre-existing documentation.
- Analyzed data requirements. Set up and manipulated data using tools including a database editor (DBE) and data loader. Generated reports using a proprietary report writer to match expected results.
- Tested software on ALPHA platform updating test plans and logging bugs found. Entered defects into a proprietary bug tracking system.
- Wrote enhancement and on-line documentation.

B.S. in Finance, Drexel University

PROFESSIONAL TRAINING

Master Certificate in Software Testing, Villanova University
Six Sigma Green Belt
Technical Writing for Professionals, The Writing Center, Inc.

TECHNICAL SKILLS

- Operating Systems: Windows Vista, Windows XP, Windows NT, OpenVMS
- Software: MS Word, MS Excel, MS Access, Lotus Notes, Outlook, Clarity, JIRA, SQL, Beyond Compare, UltraEdit
- On-line tutorials: Quality Center – Requirements, Test Plan, Test Lab, Defects, also QTP

PROFESSIONAL ASSOCIATIONS

Professional Women's Business Network
Technology Professionals Networking Group

Classification #16 – Help Desk Analyst

Career Overview

• Support and troubleshooting of PC and Mac hardware,
Software and networking issues.
• 6 plus years' experience providing Technical support for
Users.
• Excellent communication, organizational, planning and
Diagnostic skills.

• Proactive self-starter known to initiate processes and
look for the solution to problems.
• Team player with the ability to work well with others as
well as independently.
• Passionate about taking on a challenging position and
contributing to a business' success.

Qualifications

• **SOFTWARE APPLICATIONS**:
SharePoint,
Adobe Acrobat, Microsoft Visio 2003,
Push VNC, Bart PE, Track-it, Adobe (InCopy,
PhotoShop, Flash Player, Acrobat Pro, AIR,
InDesign, Illustrator), Firefox, MacAfee,
Skype, Spark, Team
Base, Webex, Web Help desk, Active Sales,
GotoAssist, IE, Mac OS (Leopard, Snow Leopard,
Lion), Microsoft Office for Mac 2008/2011,
GroupWise, Citrix (Mac & PC), WSFTP, Parallels,
Sametime, Microsoft Office 2000 /2003 /2007 /Professional /Standard, Microsoft Office Communicator 2003, OneNote, Remedy, VPN Client, QuickTime, Symantec, Ghost, Spybot , Remote Desktop Connection, Microsoft Windows 95/98/XP/Vista/7/8 (OS)

•**ADMINISTRATIVE**: MS Exchange 2007, Active
Directory. Avaya, Altiris, Blackberry Exchange Server, VMware v Sphere Client, Attask, Console One, Notifylink, Retina, SQL (Some exp.)
• **HARDWARE**: Desktops and Laptops (PC and
Mac), Networking: Network Cards, Cisco Routers
(some configuration experience), Printers, And
Scanners, Ipad, Blackberry, Iphone, Androids

Accomplishments
Earned Certification from Learning Tree International, for the following classes:

- Completed System and Network Security Introduction class.
- Completed the SANS Security Essentials Boot camp: Finished with 46.0 CPE credits

Work Experience

Help Desk Analyst – CDI Corporation –
Arlington County Government - September 2014 to Present

- **Provide level 1 and 2 technical support to all levels of county employees**
- **Support Windows 7 in an office 365 environment**

Help Desk Analyst (Incident Management) (Secret Clearance -Received June 2013)
12/2012 – Present
Department of State   Rosslyn, VA

- Provide service support for Microsoft Office products, database applications and a variety of engineering applications and peripherals.
- Provide training and assistance to newly hired IT employees for IT security, utilization of networks, computers and peripherals such as scanners and printers.
- Install and update software, hardware, Microsoft critical updates and service packs.
- Evaluates and supports computers and various printer, graphics and storage applications involving installations, upgrades, maintenance, testing and troubleshooting of software utilized by OBO/REM/EX/IRM/NOMB.
- Verifies compatibility with new operating systems as they are released and utilized within the organization.
- Creates, tests, and approves images for workstation replacements and updates utilizing imaging software.
- Prepares new computers for delivery and deployment by creating standard software loads and installing the load on PCs.
- Oversees back up and file restoration of servers.
- Proficiently fields service desk requests in support of software, hardware and communications issues via telephone calls and email communication systems.
- Works closely with manufacturers and/or vendors to expedite repair and/or updates for computers.
- Creating SOP's
- Building DevNet machines

Technical Support Specialist   08/2010 –
10/2012
AAAS   Washington, DC

- Provided technical assistance and training to system users.
- Responded to user requests for assistance by phone and in person.
- Installed and modifies personal computer and Macintosh hardware and software.
- Assisted in the administration of Windows Active Directory, @Task Help Desk application, disk space, users,
  groups and server hardware.
- Provided support for GroupWise email system.
- Provided first-line support for AAAS software applications.
- Diagnosed hardware, software, and operator problems and takes remedial actions or recommends
  procedural changes.

- Installed and configures peripheral equipment such as monitors, keyboards, printers and disk drives.
- Loaded and configures software such as operating systems, environments and applications.
- Assisted in recommending hardware and software purchases and testing applications.
- Worked on Security Project to implement Retina
- Managed Blackberry Exchange Server, Notifylink Server, Avaya Server and Retina Server w/ SQL Reporting
- Provided System Administrative Support with AD, and Novell Console One
- Trained users on Avaya Conferencing System

Help Desk Technician Mac Support

4/13/10 -
07/2010
Beacon Hills Staffing Agency -The Chronicle of Ed

- Updated all Mac users to Mac OS X Troubleshoot and resolve network, software and hardware problems

Provide support for Mac's and PC's Troubleshoot network printer issues Install and update software Enter
tickets in Web Help Desk.

Help Desk Technician

12/2009 - 03/2010
U.S. News & World Report

- Provide Tier 1 and 2 technical support for local and remote users
- Escalate network-wide issues to Systems Administrators
- Enter all trouble report email/phone calls into the ticket tracking system
- Provide remote and desk side support for software applications
- Troubleshoot network printers' physical, queue and software problems
- Differentiate between hardware and software issues
- Install, configure and troubleshoot PC hardware components and peripheral devices
- Train end users in use of equipment and applications
- Configure and support Blackberries
- Provide network and applications orientation for new employees
- Troubleshoot network connectivity problems
- Provide support for Mac OSX iMacs, G5, PowerBooks
- Support Internet browsers and assist users in accessing internal and external sites
- Ability to research problems and resolutions, and be able to apply those resolutions
- Follow-up written communication with users.

I T Client Support Intern

06/09 - 12/25/09
Travel Channel

- Input incidents into ticket tracing system (Remedy).
- Resolved incidents in person, over the phone as well as through email.
- Used remote tools such as remote desktop and Push VNC to analyze and resolve user issues.
- Reset Passwords and network account set up.
- Installed Microsoft Windows Patches and updates.
- Loaded computer with company furnished system images.
- Resolved MacBookPro connectivity issues.
- Assisted with set up of teleconferencing sessions, and other conference room requests.
- Performed computer re-images, assist users with restore and installation of software apps.
- Installed software and security updates to users systems.

- Used VPN Administration Client to set up employees VPN access.
- Set up Blackberry accounts and configured Blackberries for user use.
- Resolved issues dealing with viruses and spy ware.
- Used SharePoint to track of projects and to enter information for computer hardware being used.
- Used Active Directory to configure and maintain user and computer accounts.

Law Firm Administrator/On site Computer Tech
05/2008 - 04/2009
Michele Zavos Law Group

- Explained the technical problems that occurred with the system to staff members.
- Worked with the server to install updates.
- Contacted and applying information received from software companies.
- Installed programs and resolving application problems.
- Interacted daily with clients through telephone scheduling and in person meetings.
- Organized and implemented billing systems and maintained electronic client database program.
- Drafted and proofread correspondence to clients as well as copied and faxed legal documents.
- In charge of Accounting and billing.
- Worked with the accountant who came in one day a week.
- Reviewed and Corrected Last Will and Testament documents.

Help Desk, Student Worker   12/08 - 03/09
Devry University

- Helped faculty, staff and students with any computer issues that arose.
- Maintained campus computers by installing and updating programs and re-imaging.
- Developed a better understanding of computer problems and how to solve them.
- Worked with Cisco router configuration and connection.

<u>Education and Training</u>

Working on Certificate then Bachelors: UMUC – Computer Networking College Park, MD
Certificate 12/2014
Computer Networks and Security College Park, MD BA
12/2015

Classification #17 – Business Analyst

Business Systems Analyst Qualifications Summary

Versatile and accomplished Business Systems Analyst with an extensive background in information technology and process re-engineering, proficient at eliciting, analyzing and defining project requirements with an emphasis on attention to detail. Energetic and self-motivated professional with excellent organizational, oral and written communication skills with demonstrated client relationship management.

Profile Summary

- Experience in all phases of the Software Development Life Cycle (SDLC) using plan-driven and change-driven approaches, which include:
  - Projects using Waterfall methodology to provide complete planning, scoping, and requirements development and analysis before software development kickoff.
  - Projects using Agile methodology and Lean Software Development principles to focus on communication over standard documentation, with an evolutionary approach to requirements development, seeking and then acting on feedback.
  - Daily standups for multiple teams to ensure requirements for the current sprint are always clear to the engineering teams.
- Facilitation of conversations between all stakeholders, which include:
  - Business groups, customers, subject matter experts (SME), UAT teams and other business teams.
  - Software developers, architects, quality assurance and software testers, and other technical teams.
- Accountability and personal ownership to lead, develop, coach, and motivate team members to achieve goals.
- Facilitation of JAD sessions, workshops, structured walkthroughs, and root cause analysis sessions.
- Analysis of business requirements and related business rules based on internal business group or external client needs.
- Analysis of end-to-end business processes as object-oriented design models and business process models using UML.
- Analysis and modeling of end-to-end business processes using BPMN to simplify understanding of current and to-be business processes.
- Identification of requirements using analysis techniques such as data flow modeling, process modeling, workflow analysis, functional decomposition, use cases, scenarios, and user stories.
- Documentation of complex business processes and delivery of functional requirements and specifications to include the appropriate artifacts (images, mockups, wireframes, etc.).
- Use of analytical and troubleshooting skills to facilitate and aid solution assessment.
- Design of ecommerce web and enterprise application user interfaces (UI).
- Utilization of MS SQL, Oracle, and Sybase database knowledge to define functional requirements.
- Use of SQL querying and SQL script writing to analyze data and create ad hoc reports.
- Editing of web service schemas and writing sample XML request messages in SOA environments.
- Functional and acceptance testing of applications, application interfaces, and web services.

Professional Experience

Office of Innovation and Technology, City of Philadelphia, Phila, PA   04/2014 – Present
Business Analyst (contract position)
- Replicate specific Microsoft Access applications and migrate database records to Azteca Cityworks to make use of unified GIS assets and to provide city officials expanded reporting capabilities in Crystal Reports.
- Illicit requirements for a Cityworks Server implementation to replace the stand-alone ROW Counter Log application; datamap ROW records to Cityworks; implement changes to existing Citywork/Highways using Cityworks Designer and changes to XML configuration files.
- Create user and admin documentation on current applications, processes, and IT assets.
- Providing requirements and as-is/to-be process models to the Hymark/Onbase SOW team for the private ADA design review and approval and finished work inspection for Cityworks implementation.
- Analyze and evaluate the GIS IT group's processes to implement Six Sigma improvements and comply with the Mayor's IT Maturity Initiative.

Philadelphia Insurance Companies, Bala Cynwyd, PA   06/2013 – 03/2014
Business Systems Analyst (contract position)
- Elicited and wrote goals, scope, and requirements for a project to implement an automated policy renewal process in an SOA environment.
- Elicited business needs and acquired solution buy-in on automated policy renewal process improvements using WebEx meetings with the 26 regional sales offices (using a representative selection of regional marketing managers), senior account executives, and underwriting vice presidents of each product line affected.
- Wrote the requirements documents consisting of project scope, process and state diagrams, use cases, business rules, business and functional requirements, data and performance requirements.
- Defined requirements for implementing a new Business Rules Managements System (Redhat BRMS and webMethods) to the enterprise and conducted initial acceptance tests using SoapUI.
- Defined requirements for commercial surety bonds sales eCommerce solution.
- Documented and tracked requirements and user story backlog in Jira.

Global Indemnity Group, Bala Cynwyd, PA   01/2013 – 06/2013
Business Systems Analyst/Project Manager (contract position)
- Elicited, analyzed and documented requirements for a project integrating an eCommerce applicatyion (Global's Quick Rater) with Vertafore's Policy Issuance application (as a SaaS) using RESTful web services written to the ACORD standard.
- Worked with web developers for implementing a more complete catalog of products and options for independent agents, and further, wrote FRs for the backend all the way to the mainframe.
- Analyzed and documented requirements for improving a rating web service exposing Global's policy rating engine. Wrote software specifications for new features and edited the web service's SOAP schemas using XMLSpy and the ACORD standard.

Medecision, Wayne, PA   08/2011 – 01/2013
Business Systems Analyst (contract position)
- Played a lead role in interacting with all stakeholders to define requirements and specifications to expose a care management platform's UI functionality as SOAP web services.
- Documented Epics, User stories, and Acceptance Criteria; organized and tracked User Story backlog in CollabNet TeamForge enterprise requirements management.
- Identified gaps between the web service requirements and the ETL utility they were to be based on; defined change impact on the existing application.
- All work performed to Agile/Scrum methodology with Lean Software Development principles.
- Created data models and data maps to expand acceptance criteria across multiple requirements.

Pfizer, Collegeville, PA   04/2011 – 08/2011
Business Systems Analyst/Project Manager (contract position)
- Analyzed and wrote requirements for a web-based .NET application project to register all Pfizer applications for authentication, authorization and SSO on the Pfizer global directories (Active Directory, ADAM, and PXED) through interaction with business clients and product owners.
- Wrote and managed project charter and project schedule.
- Gathered new requirements from stakeholders over requirements workshops.
- Authored Functional Specifications and communicated them to development and test teams.
- Checked data migration requirements from the phasing out directories and ensuring existing registrations.

CommVault, Oceanport, NJ   08/2010 – 04/2011
Business Analyst
- Elicited vendors, analyzed, documented, and managed requirements for cloud storage administration interface and management modules for several private and public cloud storage vendors.
- Documented and tracked user story backlog in Quality Center.
- Drew up test plans proposals to stakeholders like developer teams, program manager, delivery manager, project manager, and testers, and wrote test scenarios.
- Elicited customers, analyzed, documented and managed requirements for implementing custom Sarbanes-Oxley solutions for a number of CommVault's largest customers.

Northrop Grumman Mission Systems, Mt Laurel, NJ; Sierra Vista, AZ   2006 – 2010
Data Center Manager 06/2009 – 05/2010, Sierra Vista, AZ
Data Center Manager 10/2006 – 06/2009, Mt. Laurel, NJ
- Managed a team of system administrators.
- Managed software developers and other stakeholder requirements for infrastructure support.
- Developed and scheduled site Windows Server 2008 R2 upgrade and migration.
- Developed and scheduled site Exchange 2002 to 2007 migration.
- Worked with IT security to implement corporate Sarbanes-Oxley compliant resource policies and DOD security requirements.
- Installed and configured SQL Server and Oracle databases.
- Administered Juniper firewalls, and Cisco switches and routers.
- Administered VMware on HP BladeSystem and IBM Blade Center.
- Troubleshot escalated and Tier IV problems, especially complex LDAP problems that arose in the constantly changing network environment.
- Selected, purchased, installed, and managed local helpdesk ticketing system on LAMP server at remote site in Arizona.

Unisys, Malvern, PA   1997 – 2006
Business Analyst
- Developed business, functional, user, QoS, and implementation requirements of mainframe hardware and software solutions for airline, banking, publishing, and government customers.
- Developed business and functional requirements for pharmaceutical manufacturing diversion control and anti-counterfeiting solutions to aide customers' compliance with the Prescription Drug Marketing Act (PDMA).
- Developed business and functional requirements for an airline ticketing system for Lufthansa Systems, Germany and served as the primary contact for project teams.
- Developed business requirements and functional specifications for a banking modernization project for Bank Brienz Oberhasli AG, Switzerland (BBO) and served as the primary contact for project teams.
- Documented EDI to XML data modeling techniques and solutions.
- Created and ran UI design lab staffed on a rotating basis by Unisys marketing employees.

- Conducted QA and wrote user acceptance tests (UAT) for heterogeneous systems.
- Administered mainframe development lab network and assisted in product integration testing.

Boeing Helicopter, Ridley Park, PA   1994 – 1997
Technical Writer
- Wrote technical manuals for the V-22 Osprey flight control system.
- Deciphered multi-layered maintenance codes and wrote the first flight control computer
  and full authority digital engine controls (FADEC) diagnostics reference.
- Performed process analysis for the onboard diagnostic system and wrote design requirements for
  flight control engineering.

McDonnell Douglas Training Systems, Mesa, AZ   1993 – 1994
Maintenance Instructor (contract position)
- Wrote maintenance training courses for the Longbow Apache attack helicopter avionics
  and weapons systems.
- Taught classes to maintenance instructors of the US Army 82nd Airborne.

IBM Storage Systems Products Division, Tucson, AZ   1992 – 1993
Technical Writer (contract position)
- Partnered with a development engineer to write all series manuals for the IBM 3995 Optical
  Library Dataserver.
- Used IBM BookMaster SGML editor conditional text to create manuals for all seven models of the
  dataserver from common files.

Certifications
Microsoft Certified Systems Engineer (MCSE License Number 2650585)
Unisys Certified Clearpath Administrator
Northrop Grumman Certified Software Test Engineer
CommVault Certified Enterprise Storage Administrator
CompTIA Security+

Education
- Rutgers University - Bachelor's degree program in computer science.
- Unisys University - subjects of study: Unisys mainframe design, ClearPath mainframe operating
  system (MCP), SCO UnixWare administration, Fibre Channel Protocol, Brocade SAN fabric
  operating system, Cisco IOS, object oriented design, APIs, and web publishing.
- Delaware County Community College - subject of study: Microsoft Certified Systems Engineer
  training program.
- CommVault America Company School - subject of study: Simpana 9 Enterprise Storage
  Administration.
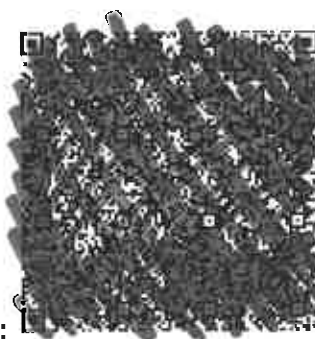
My vCard:

Classification #18 – Technical Writer

Summary of Qualifications

- Thirty years experience writing and editing quality technical documents, including user manuals, quick-reference guides, release notes, Standard Operating Procedures (SOPs), and training manuals
- Adept at working with subject-matter experts (SMEs) in various fields to gather information and present it to audiences clearly and concisely
- Expert at managing a multitude of tasks, schedules, and deliverables and at taking on special projects

Professional Experience

Bayer Business Services (Contractor), Pittsburgh, Pennsylvania
9/2010 to present

Senior Documentation Specialist for Bayer's Quality, Compliance, and Vendor Management Team.

- As the North American expert for the BBS document repository tool, manage documents in the tool to ensure quality globally; provide training reports to BBS managers on request; coordinate on-boarding/off-boarding third-party contractors to training roles; manage document review cycle
- Support Corporate and Internal Audits by working with team POCs to gather information from appropriate IT department SMEs
- Track Corrective Actions/Preventive Actions (CAPAs) for two IT departments, ensuring that all are "answered" appropriately and closed by system due dates
- Provide training for special projects, including training approx. 300 staff on company's Incident Management ticketing system and approx. 200 staff on company's globally aligned document repository tool. Also support managers on applying staff training through the HR tool
- Work with SMEs from IT business units to produce operational concepts, process workflows, SOPs, etc. with the goal to consolidate global and regional process documents

Westinghouse (Contractor), Pittsburgh, Pennsylvania
3/2010 to 9/2010

Technical Writing Consultant for Westinghouse (Nuclear Energy Division), assisting in their efforts to consolidate policies and procedures from several groups within Supply Chain Management. The task required reviewing documents for accuracy, ensuring that process flows translated into complete procedures, and maintaining a consistent formatting style. Worked with SMEs to clarify business requirements and gather data for documentation.

M.C. Dean, Inc., Chantilly, Virginia
3/2007 to 1/2010

Senior Technical Writer for a Washington, DC-based engineering and integration firm specializing in electrical, electronic, and telecommunication systems.

- Wrote and edited deployment plans, design documents, and release notes for delivery to various Government entities, including Space and Naval Warfare (SPAWAR) Systems Center, US Navy, and the Department of Homeland Security (DHS).
- Acted as documentation lead for the Maritime Domain Awareness (MDA) Non-Classified Enclave (NCA) Pilot program, a fast-tracked (six month), $2M, multi-team engineering effort to develop an MDA non-classified information-sharing capability for the Deputy Undersecretary of the Navy. This position

required coordinating, managing, and editing over 50 technical documents with a team of approximately 12 subcontractors.

- Produced the user manual for the DHS National Operation Center (NOC) Common Operational Picture (COP). SPAWAR and M.C. Dean, Inc. custom-developed the COP to support the DHS mission by providing an analysis of events to determine their impact during man-made and natural disasters.

Sprint Nextel Communications, Inc., Reston, Virginia
9/2002 to 3/2007

Senior Technical Writer for Sprint Nextel wireless telecommunications company (a Fortune 200 company).

- Evaluated, planned, wrote, edited, formatted, and published Quick Reference Guides (QRGs) from various sources for enterprise-wide use.
- Worked closely with company-wide teams to migrate audiences to an intranet environment and provide a centralized source for user documentation.
- Determined audience needs and best delivery methods for providing the appropriate information to individual audiences (via email, newsletter, intranet, etc.).
- Represented documentation needs for audiences on core project teams. In this role, determined if and how current projects would affect content needs, and used information from these teams to create or update audience information, as needed.
- Planned, created, and managed Nextel's first online scripting tool. Worked with contacts in Customer Lifecycle to determine best use of the tool.
- Led Care-Center-wide call to review weekly initiatives. Collected and edited content for review on the call.

VeriSign, Inc. (formerly Network Solutions), Herndon, Virginia
5/1999 to 2/2001 and 7/2001 to 10/2001 as contractor

Senior Technical Writer. Wrote and maintained installation and operations guides for the Engineering department. Managed project documents, ensuring that they were easy to understand and quickly accessible on the intranet for use by Operations staff. Attended deployment meetings and wrote accurate and complete deployment guides. Assisted the Marketing department in editing non-technical information for the company web pages.

Technical Expertise

Working knowledge of the following documentation and implementation tools:

- Microsoft Office 2010 suite of products (Word, Excel, PowerPoint, Visio, Lync)
- FrameMaker
- Adobe Acrobat

Education

- Bachelor of Arts in History from Principia College, Elsah, Illinois
- Basic Literacy Teaching Certificate, The Literacy Council of Northern Virginia, August 2007
- Basic Literacy Teaching Certificate, The YWCA, Greensburg, Pennsylvania, May 2013

Classification #23 - Sr. .NET Application Programmer Analsyt

WORK SUMMARY

A Technical Lead, Project Manager, Entrepreneur and MBA Holder. With over 20 years of experience in Software Industry designing and implementing various complex systems in multiple industries. Experience in all phases of Software Development life cycle including but not limited to project management, requirements analysis, design, development, testing, implementation and support.

TECHNICAL SUMMARY

Objective-C	Javascript	Oracle	UML
Swift	JQuery	MS SQL Server	Design Patterns
Powerbuilder	Python	XML/JSON/NoSQL	Business Analysis
Java	C#	Web Services	Agile
ColdFusion	Visual Basic	CoreData	Scrum/Kanban

WORK EXPERIENCE

Mar/2001 – Current	CDI Corp.	Charleston, WV, USA

CDI Corporation is a global provider of engineering and information technology project delivery and specialty staffing.

IRIS
Co-Project Manager

- Co-Project Manager of the IRIS Project, consolidation of all the diverse systems across the Agency with at least 850 users and a cost of over $8 million.
- Member of Department of Environmental Protection's Advisory Board and Steering Committee.
- Architect and Technical Lead of the Data and Application Integration project.
- Member of the Software Evaluation Team that selected the ETL & BI Tools.
- Participates in the Software Development Process definitions and Programming Staff hiring.

Aboveground Storage Tank System
Project Manager and Lead Developer

- Project Manager of the "Aboveground Storage Tank" system created as a result of the West Virginia 2014 Water Crisis. System was released one month before the Bill became effective.

Electronic Signatures
Lead Architect and Application developer

- Architect of the Electronic Signatures project. First implementation of Digital Signatures in the State of West Virginia.
- Member of a multi-agency team: Office of Technology, Department of Environmental Protection and Department of State.
- Developed the Blueprint and Software Components for future Electronic Signatures projects.
  Environment: PKI, C#, Java (Server Side, Cryptography API), VB6.0, ColdFusion, Oracle

. **Electronic Submission System**

<u>Architect and Application developer</u>

- Infrastructure Architect and Developer for the Electronic Submission System.
- Used UML for documentation and presentation to the development team.
  Environment: Oracle, Java, Java Script, PowerBuilder, ColdFusion, JQuery, XML, XSLT, UML

Web AML

<u>Lead Architect and Project Manager</u>

- Successfully designed and implemented the WebAML system, connecting over 60 users and 3 offices.
- Creator of the "CAFE ORM". A ColdFusion Component Object-Relational Mapper.
- Engineer the Application Infrastructure: Security, Navigation, Libraries, Performance, etc.
- Lead a team of three developers.
  Environment: Oracle, Adobe Flex, JQuery, Java Script, ColdFusion, FuseBox

Web Airtrax

<u>Lead Developer</u>

- Designed and Created the WebAirtrax Architecture. WebAirtrax is a new Rich Internet Application developed using AJAX, JavaScript, ColdFusion and Oracle to replace a legacy application. The infrastructure allows de velopers to create Desktop-style w indows using Web and Object Oriented Technologies.
  Environment: Oracle, AJAX, ExtJS, ColdFusion, Fusebox, Java, UML

June/2010 – Current	Upiksoft	Charleston, WV, USA

<u>Owner</u>

- Upiksoft is a software company dedicated to make complex problems simple. Upiksoft specializes in iOS development (iPad, iPhone).
- Upiksoft has sold its myBanquet App in 75+ countries.
- Microsoft requested to convert the App into a Windows 8 App.
  Environment: Objective-C, Swift, CoreData

Feb/2000 – Mar/2001	UniversalCatalog.com Corp.	Miami, Florida, USA

Universal Catalog was an Online B2B marketplace, start-up.

<u>Architect and Lead Developer</u>

Universal Catalog Website Platform

- Software architect and lead developer. Selected the software technologies, tools, among others.
- Designed and developed a 3-tier B2B Marketplace using an incremental and iterative development process.
  Environment: MS SQL Server, VB, ASP, COM, Javascript, XML.

Feb/1995 – Feb/2000	Royal Systems	Lima, Peru

Software development and Business Consulting Company

<u>Software Development Supervisor</u>

ERP Spring and multiple projects

- One of four founders of Software Development Company that grew up to 40 employees within 4 years and has completed successfully projects in Peru, Bolivia, Mexico and Colombia.
- Business Consulting and ERP implementation in at least 20 companies in Peru and Bolivia. Successfully completed projects in different fields, such as Finance, Oil & Gas, Chemical, Pharmaceuticals, Manufacturing, NGOs, Schools, etc.
- Member of core team of software engineers for ERP product "Spring".

- Participated in the company procedures definition, programming staff hiring, reported directly to the CEO.

Environment: PowerBuilder, MS SQL Server, Oracle, Business Objects

Work Experience Prior to 1995

- Occidental Petroleum OXY 1994 PowerBuilder Developer
- GMD, Construction Company 1994-1995 PowerBuilder Developer

EDUCATION

Marshall University, Graduate School of Management, WV

- MBA Program, 2002 – 2004

Professional Certifications

- Sun Certified Enterprise Architect for J2EE
- Sun Certified Programmer for Java
- IBM Object Oriented Analysis and Design UML Certified

ESAN (Business and Administration School for Executives), Lima - Peru

- Accounting for Executives, January 1999

Universidad de Lima, Peru

Bachelor of Science in Systems Engineering, August 1996

- Graduated top fifth of the class
- 7th in admission exam of 2,800 students

AWARDS

- Winner of the "West Virginia Innovation Technology Award 2007"

Purchasing Divison
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Request for Quotation
21 — Info Technology

Proc Folder: 87116

Doc Description: Addendum 3: Temporary IT Staffing Contract for WVDHHR/OMIS

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2015-05-08	2015-05-20 13:30:00	CRFQ 0511 HHR1500000008	4

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON   WV   25305
US

VENDOR

Vendor Name, Address and Telephone Number:

CDI Corporation
1717 Arch Street
Philadelphia, PA 19103
POC - Rob Strickland - 571-332-1702

FOR INFORMATION CONTACT THE BUYER

Robert Kilpatrick
(304) 558-0067
robert.p.kilpatrick@wv.gov

Signature X	FEIN #	DATE 5/13/2015

All offers subject to all terms and conditions contained in this solicitation

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	FACTS Technical Project Manager	2288.00000	HOUR	$84.60	$193,564.80

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.1 FACTS Technical Project Manager - All-inclusive Hourly Rate

Quantities provided in this solicitation are estimates only; actual ordered quantities may vary.

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	FACTS Senior Web Application Analyst	2288.00000	HOUR	$80.77	$184,801.76

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.2 FACTS Senior Web Application Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	FACTS Web Application Analyst	2288.00000	HOUR	$72.46	$165,788.48

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.3 FACTS Web Application Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	FACTS Application Architect	2288.00000	HOUR	$97.72	$223,583.36

Comm Code	Manufacturer	Specification	Model #	.
80111608				

Extended Description :

4.1.4 FACTS Application Architect - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Web Team Senior Web Application Analyst	2288.00000	HOUR	$80.43	$184,023.84

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.5 Web Team Senior Web Application Analyst - All-inclusive Hourly Rate

INVOICE TO		SHIP TO	
BUYER - 304-957-0209		STATE OF WEST VIRGINIA	
HEALTH AND HUMAN RESOURCES		VARIOUS LOCATIONS AS INDICATED BY ORDER	
MANAGEMENT INFORMATION SERVICE			
ONE DAVIS SQUARE, RM 211			
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	OSCAR Senior Application Programmer Analyst	2288.00000	HOUR	$83.41	$190,842.08

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.6 OSCAR Senior Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO		SHIP TO	
BUYER - 304-957-0209		STATE OF WEST VIRGINIA	
HEALTH AND HUMAN RESOURCES		VARIOUS LOCATIONS AS INDICATED BY ORDER	
MANAGEMENT INFORMATION SERVICE			
ONE DAVIS SQUARE, RM 211			
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	OSCAR Application Programmer Analyst	2288.00000	HOUR	$80.43	$184,023.84

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.7 OSCAR Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO		SHIP TO	
BUYER - 304-957-0209		STATE OF WEST VIRGINIA	
HEALTH AND HUMAN RESOURCES		VARIOUS LOCATIONS AS INDICATED BY ORDER	
MANAGEMENT INFORMATION SERVICE			
ONE DAVIS SQUARE, RM 211			
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
8	OSCAR Application Programmer	2288.00000	HOUR	$74.47	$170,387.36

Comm Code	Manufacturer	Specification	Model #	
80111608				

Extended Description :

4.1.8 OSCAR Application Programmer - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
9	Senior Application Oracle Database Administrator	2288.00000	HOUR	$80.28	$183,680.64

Comm Code	Manufacturer	Specification	Model #	
80111609				

Extended Description :

4.1.9 Senior Application Oracle Database Administrator - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
10	Application Oracle Database Administrator	2288.00000	HOUR	$69.35	$158,672.80

Comm Code	Manufacturer	Specification	Model #	
80111609				

Extended Description :

4.1.10 Application Oracle Database Administrator - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
11	Senior SQL Server Database Administrator	2288.00000	HOUR	$82.91	$189,698.08

Comm Code	Manufacturer	Specification	Model #
80111609			

Extended Description :

4.1.11 Senior SQL Server Database Administrator - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
12	SQL Server Database Administrator	2288.00000	HOUR	$80.28	$183,680.64

Comm Code	Manufacturer	Specification	Model #
80111609			

Extended Description :

4.1.12 SQL Server Database Administrator - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
13	Senior COGNOS Analyst/Project Manager	2288.00000	HOUR	$84.90	$194,251.20

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.13 Senior COGNOS Analyst/Project Manager - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
14	COGNOS Analyst	2288.00000	HOUR	$70.00	$160,160.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.14 COGNOS Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
15	Software Test Analyst	2288.00000	HOUR	$55.55	$127,098.40

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.15 Software Test Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
16	Help Desk Analyst	2288.00000	HOUR	$34.11	$78,043.68

Comm Code	Manufacturer	Specification	Model #
80111616			

Extended Description :

4.1.16 Help Desk Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
17	Business Analyst	2288.00000	HOUR	$59.86	$136,959.68

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.17 Business Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
18	Technical Writer	2288.00000	HOUR	$52.13	$119,273.44

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.18 Technical Writer- All-inclusive Hourly Rate

INVOICE TO		SHIP TO	
BUYER - 304-957-0209			
HEALTH AND HUMAN RESOURCES		STATE OF WEST VIRGINIA	
MANAGEMENT INFORMATION SERVICE		VARIOUS LOCATIONS AS INDICATED BY ORDER	
ONE DAVIS SQUARE, RM 211			
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
19	Senior CRM Application Programmer Analyst	9000.00000	HOUR	$84.90	$764,100.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.19 Senior CRM Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO		SHIP TO	
BUYER - 304-957-0209			
HEALTH AND HUMAN RESOURCES		STATE OF WEST VIRGINIA	
MANAGEMENT INFORMATION SERVICE		VARIOUS LOCATIONS AS INDICATED BY ORDER	
ONE DAVIS SQUARE, RM 211			
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
20	CRM Application Programmer Analyst	25000.00000	HOUR	$78.94	$1,973,500.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.20 CRM Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
21	Senior SharePoint Application Programmer Analyst	7000.00000	HOUR	$92.34	$646,380.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.21 Senior SharePoint Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
22	SharePoint Application Programmer Analyst	13000.00000	HOUR	$84.30	$1,095,900.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.22 SharePoint Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO	SHIP TO
BUYER - 304-957-0209 HEALTH AND HUMAN RESOURCES MANAGEMENT INFORMATION SERVICE ONE DAVIS SQUARE, RM 211 CHARLESTON WV25301 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
23	Senior .NET Application Programmer Analyst	25000.00000	HOUR	$87.87	$2,196,750.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.23 Senior .NET Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO		SHIP TO	
BUYER - 304-957-0209			
HEALTH AND HUMAN RESOURCES		STATE OF WEST VIRGINIA	
MANAGEMENT INFORMATION SERVICE		VARIOUS LOCATIONS AS INDICATED BY ORDER	
ONE DAVIS SQUARE, RM 211			
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
24	.NET Application Programmer Analyst	50000.00000	HOUR	$78.94	$3,947,000.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.24 .NET Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO		SHIP TO	
BUYER - 304-957-0209			
HEALTH AND HUMAN RESOURCES		STATE OF WEST VIRGINIA	
MANAGEMENT INFORMATION SERVICE		VARIOUS LOCATIONS AS INDICATED BY ORDER	
ONE DAVIS SQUARE, RM 211			
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
25	Senior Mainframe Application Programmer Analyst	13000.00000	HOUR	$80.43	$1,045,590.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.25 Senior Mainframe Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO

BUYER - 304-957-0209

HEALTH AND HUMAN RESOURCES
MANAGEMENT INFORMATION SERVICE

ONE DAVIS SQUARE, RM 211

CHARLESTON   WV25301

US

SHIP TO

STATE OF WEST VIRGINIA
VARIOUS LOCATIONS AS INDICATED BY ORDER

No City   WV 99999

US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
26	Mainframe Application Programmer Analyst	13000.00000	HOUR	$72.01	$936,130

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.26 Mainframe Application Programmer Analyst - All-inclusive Hourly Rate

INVOICE TO

BUYER - 304-957-0209

HEALTH AND HUMAN RESOURCES
MANAGEMENT INFORMATION SERVICE

ONE DAVIS SQUARE, RM 211

CHARLESTON   WV25301

US

SHIP TO

STATE OF WEST VIRGINIA
VARIOUS LOCATIONS AS INDICATED BY ORDER

No City   WV 99999

US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
27	Senior Application DB2 Database Administrator	9000.00000	HOUR	$80.43	$723,870.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.27 Senior Application DB2 Database Administrator- All-inclusive Hourly Rate

INVOICE TO

BUYER - 304-957-0209

HEALTH AND HUMAN RESOURCES
MANAGEMENT INFORMATION SERVICE

ONE DAVIS SQUARE, RM 211

CHARLESTON   WV25301

US

SHIP TO

STATE OF WEST VIRGINIA
VARIOUS LOCATIONS AS INDICATED BY ORDER

No City   WV 99999

US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
28	Application DB2 Database Administrator	9000.00000	HOUR	$71.49	$643,410.00

Comm Code	Manufacturer	Specification	Model #
80111608			

Extended Description :

4.1.28 Application DB2 Database Administrator- All-inclusive Hourly Rate

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

<u>**ADDENDUM TO CONTRACT NUMBER   1500000008   FOR**</u>
<u>**TEMPORARY TECHNOLOGY STAFFING**</u>
**Supporting #22 Modifications under General Terms and Conditions

This Addendum is made on the date signed below by and between the State of West Virginia, and CDI Corporation ("CDI") to clarify various exceptions contained in CDI's bid response ("CDI's Bid") to RFQ # CRFQ 0511 HHR1500000008 ("RFQ"). The RFQ, CDI's Bid, and any other documents that combine to form the contract for the services requested in the RFQ ("Contract"), are modified as follows:

1. **General Terms and Conditions Section 14. PAYMENT** is removed in its entirety and replaced with the following:

   Payment in advance is prohibited under this Contract. Payment may only be made after approval of hours worked. The Vendor shall submit invoices weekly, in arrears to the Agency at the address on the face of the purchase order labeled "invoice to." Payment will be made Net 30 days from the date of the invoice.

2. **General Terms and Conditions Section 26. WARRANTY** is removed in its entirety and replaced with the following:

   If Agency terminates a temporary worker's assignment during the first forty (40) hours of a person's assignment because Agency is dissatisfied with the person's performance, Agency will not have to pay Vendor for the time spent by the person. This forty hour dismissal exception does not apply if the person's assignment is expected to be less than 40 hours.

3. **General Terms and Conditions Section 35. VENDOR RELATIONSHIP** is removed in its entirety and replaced with the following:

   The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for a ll wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limit ed to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of a ll necessary documents, forms and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns. Notwithstanding anything

to the contrary contained in this Agreement Vendor will not be responsible for the work product acts, errors or omissions of the temporary personnel on assignment at Agency.

4. **General Terms and Conditions Section 36. INDEMNIFICATION** is removed in its entirety and replaced with the following:

   Vendor agrees to indemnify, defend and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or Supplying services, materials, or Supplies in connection with the performance of the Contract; (2) And claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

5. **SPECIFICATIONS Section 2.1, "Contract Services"** is removed in its entirety and replaced with the following:

   "Contract Services" means Vendor providing staff augmentation services whereby Vendor will recruit, hire and assign temporary personnel to perform the application analysis and development; development tracking and design development processes and coding standards; technical tasks assignments; review code as part of a code review/quality assurance team; attending project meetings; reporting throughout the project lifecycle and assisting the day-to-day operation of the IRIS system, currently under development, and those systems i.e. ERIS, Airtrax, WebAML, Special Reclamation, and ePermitting, which presently provide the services that satisfy the information needs of the agency .

6. **Other Proposed Changes:** Any other proposed exceptions, modifications, additions, or deletions to the RFQ, which were proposed by CDI in its bid, are hereby rejected.

7. **Order of Priority:** The order of priority given to the documents that comprise the contract shall be this Addendum first, the RFQ second, and CDI's response as third.

Vendor	Agency
By: _____	By: _____
Its: _____	Its: _____
Date: _____	Date: _____

2

WV Attorney General's Office

By: _____

Its: _____

Date: _____

WV Purchasing Division

By: _____

Its: _____

Date: _____

ACORD® CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
06/25/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:		
Marsh USA Inc. 1717 Arch Street Philadelphia, PA 19103-2797 Attn: CDI.Certs@marsh.com	PHONE (A/C, No. Ext):		FAX (A/C, No):
	E-MAIL ADDRESS:		
023131-CRIME-US-14-15	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : Liberty Mutual Fire Ins Co		23035
INSURED CDI CORP., ETAL CDI CORPORATION 1717 ARCH STREET, 35TH FLOOR PHILADELPHIA, PA 19103-2768	INSURER B : Liberty Insurance Corporation		42404
	INSURER C : Zurich American Insurance Company		16535
	INSURER D :		
	INSURER E :		
	INSURER F :		

COVERAGES   CERTIFICATE NUMBER: CLE-003980201-03   REVISION NUMBER: 3

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE [X] OCCUR X CONTRACTUAL LIABILITY GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY [ ] PRO-JECT [ ] LOC			TB2631004255014	07/01/2014	07/01/2015	EACH OCCURRENCE	$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 0
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 5,000,000
							PRODUCTS - COMP/OP AGG	$ 5,000,000
								$
A	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS [ ] SCHEDULED AUTOS HIRED AUTOS [ ] NON-OWNED AUTOS			AS2631004255024	07/01/2014	07/01/2015	COMBINED SINGLE LIMIT (Ea accident)	$ 2,000,000
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED [X] RETENTION $ 25,000			TH7631004255114	07/01/2014	07/01/2015	EACH OCCURRENCE	$ 2,000,000
							AGGREGATE	$ 2,000,000
								$
B B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WA763D004255044 (AOS) WC7631004255034 (OR, WI)	07/01/2014 07/01/2015	07/01/2015 07/01/2015	X WC STATU-TORY LIMITS [ ] OTHER	
							E.L. EACH ACCIDENT	$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
C	CRIME			FID922029308	07/01/2014	07/01/2015	EACH OCCURRENCE	1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Re: CMO # 278-0305ITS - Various Solicitations

If required by written confirming letter, contract, purchase order or agreement and as allowed by law: 1) Certificate Holder is included as additional insured on all coverages except Workers' Compensation, Employers Liability and Crime; 2) Waiver of Subrogation is provided in favor of Certificate Holder on all policies except Crime; and 3) All coverages except Crime are primary and non-contributory with those coverages carried by Certificate Holder.

CERTIFICATE HOLDER	CANCELLATION
State of West Virginia Attn: Purchasing Division P.O. Box 50130 Charleston, WV 25305-0130	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE of Marsh USA Inc. Manashi Mukherjee _Manashi Mukherjee_

10.2.3 Any other remedies available in law or equity.

11 MISCELLANEOUS:

11.1 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Rob Strickland
Telephone Number: 571-332-1702
Fax Number:
Email Address: robert.strickland@cdicorp.com

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: HHR1500000008

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

[✓] Addendum No. 1   [ ] Addendum No. 6

[✓] Addendum No. 2   [ ] Addendum No. 7

[✓] Addendum No. 3   [ ] Addendum No. 8

[✓] Addendum No. 4   [ ] Addendum No. 9

[✓] Addendum No. 5   [ ] Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

CDI Corporation
Company

[signature]
Authorized Signature

_5/13/2015_
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

CERTIFICATIONAND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

CDI Corporation
_____
(Company)

Rob Strickland, Area Manager
_____
(Authorized Signature) (Representative Name, Title)

571-332-1702   5/13/2015
_____
(Phone Number) (Fax Number) (Date)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.
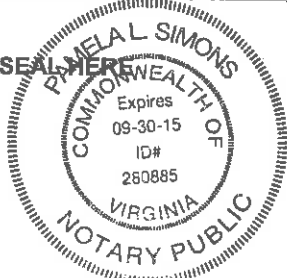
"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: _CDI Corporation_

Authorized Signature: _____ Date: _5/13/15_

State of _Virginia_

County of _Fauquier_, to-wit:

Taken, subscribed, and sworn to before me this _13_ day of _May_, 20_15_.

My Commission expires _9|30_, 20_15_.

AFFIX SEAL HERE   NOTARY PUBLIC _____

Purchasing Affidavit (Revised 07/01/2012)