

## Career Background

A software engineer with a solid understanding of the full product development cycle, from design and implementation to final release and ongoing maintenance. Experience in defect tracking, revision control management, legacy system integration, and complex software installers. Exceptional communication and organizational skills, adept at working under stressful conditions and producing work on-time. Work well in team environments as well as independently, quick to pickup new technologies, adaptable, dependable, and motivated to learn and experience new challenges.

## Qualifications

Technical skills include the following:

- *Platforms:* IBM PC and compatibles, x86, Pentium, PocketPC (MIPS, StrongARM & SH3 processors), Unisys and IBM mainframe.
- *Operating Systems:* Windows (3.x, 9x, ME, NT, 2000, XP, WinCE, .NET), Linux, UNIX, AIX, MS-DOS.
- *Development Skills:* Object-Oriented Design, System Architecture Design, Embedded Systems, Defect Tracking, Performance Analysis, Legacy System Integration, Revision Control Management, ISO 9000.
- *Languages:* Java, C#, C++, MFC, C, VB, L<sup>A</sup>T<sub>E</sub>X, SQL, LINC, Pascal.
- *Web Technologies:* Dreamweaver, ColdFusion, PHP, HTML, XHTML, J2EE, .NET, XML, JavaScript, TomCat, IIS, JBoss.
- *Environments:* Eclipse, Microsoft Visual Studio, Microsoft Embedded Visual C++, InstallShield, UltraEdit, JBuilder, Delphi, Clipper, Unisys EAD.
- *Database:* JDBC, MS SQL Server, Oracle, MySQL, FoxPro, dBASE, Clipper, ODBC.
- *Reporting/Data Mining:* Insyte, XLReporter, Crystal Reports, Monarch, R&R.
- *Configuration Management:* PVCS, SourceSafe, CVS, Source Offsite.

## Professional Experience

### PNM Resources

Albuquerque, NM

Email for latest resume.

*Sr. Programmer/Analyst*

**2004 – Present**

### Albuquerque Public Schools

Albuquerque, NM

Currently assisting team members and outside consultants with the migration and conversion of the district's financial data from their proprietary Unisys system over to Lawson ERP system, via custom programs written with the Unisys 4GL *LINC* and ad hoc SQL queries. Resultant data is subsequently transformed through tools such as Access and Excel and/or custom Java applications. Also tasked with modifying existing Lawson reports written in COBOL and identifying and designing system tools which access back-end Oracle databases using Lawson's Java API.

*Programmer/Analyst I*

**2003 – 2004**

### Invensys

Rio Rancho, NM

Participated as a team member on advanced graphical user-interfaces (HMIs) for building and environmental control systems, both for the desktop PC and WinCE 3.0 devices (PDAs), utilizing MFC under Visual C++. Primarily tasked with the creation and translation of XML messages between the HMI and remote HVAC controllers via a centralized network manager, as well as designing and implementing a user-configurable security model via XML and integration between low-level communication layers and the GUI. Other duties and achievements included:

*Software Engineer*

**1999 – 2002**

- Designed and implemented custom FlashCard installers for multiple-platformed WinCE devices. Reduced factory installation time by approximately 90% from an average 5 minutes per unit to below 30 seconds per unit.
- Designed and implemented numerous full-product, service pack and patch installers (single- and multi-stage), utilizing InstallShield and custom GUI front-ends.

- Provided integration between Wonderware and SQL Server using custom GUI interface and XLReporter. This solution resolved a critical reporting shortfall in Wonderware, which ultimately helped allow the company to retain a multi-million dollar contract.
- Identified and provided product corrective actions in a timely manner for production and legacy software systems.
- Participated in continuous maintenance efforts on the company's core legacy C systems.
- Designed, documented and performed product builds for all departmental projects.
- Incident-free completion of Y2K remediation for a suite of legacy products (authored in C and Turbo Pascal).
- Created and maintained ISO 9000 work procedures for legacy product compilation, departmental project builds, and backup systems.
- Award for excellence in leadership and professionalism, November 2000.

**Invensys**

*Engineering Technician*

**Rio Rancho, NM**

**1997 – 1999**

Created test procedures and performed subsequent validation/verification testing of the company's various HMI products, including the large-scale internationalization of the company's flagship legacy HMI product, SIGNAL. Worked closely with senior software engineers during development phases to improve product design and achieve design specification goals.

**Omni Corporation**

*Software Engineer (Independent Contractor)*

**Albuquerque, NM**

**1997 – 1998**

Developed a custom dormitory reservation system for the Federal Law Enforcement Training Center in Glynco, GA utilizing Visual Basic and Crystal Reports, with DAO integration into existing Access databases making extensive use of SQL querying. Contract requirements included full prototyping of the software with comprehensive test procedures, in addition to full documentation, personal training, and remote maintenance of the end product.

**ProLaw Software**

*Client Services & Development*

**Albuquerque, NM**

**1995 – 1997**

Provided full-range technical support via voice and remote connection to an installed base of 800+ clients nationwide and performed on-site installation, configuration, data conversion and training for new installations of the company's legal software suite. Also responsible for the design, implementation, coding and testing of custom reports, all aspects of modifications to existing reports, interfaces between third-party cost recovery systems and the software, and various import/export utilities and functions not supported in the "out-of-the-box" product via Clipper and R&R Report Writer.

**Education**

**The University of New Mexico**, Albuquerque, New Mexico.

Bachelor of Arts (BA) – Theater with minor in Computer Science, May 2004.

Graduated with baccalaureate honors, *cum laude*. GPA 3.68/4.00.

**Notable Projects**

On an individual basis, wrote two large-scale Java applications, the first a spam filtering suite of programs based on the popular and efficient Bayesian statistical model (naïve Bayes), and the second a universal puzzle engine, an exercise in artificial intelligence utilizing the pathfinding algorithm A\*. In addition to the requisite coding, project requirements included complete design, user, test, and performance documentation.

As part of a group effort, teamed up with other students in designing a Java implementation of distributed CoreWars. Tasked with designing and implementing an assembler/disassembler and loader for the special-purpose assembly language RedCode, a subset of the standard MIPS instruction set with custom extended instructions.

A code portfolio is available on the web at <http://www.michaelzanussi.com>.

**Professional Training**

Enterprise Application Developer – Unisys, Albuquerque, NM [2004]

Guerilla Web Services .NET – Developmentor, Torrance, CA [2002]

Essential MFC – Developmentor, Torrance, CA [2001]