

WALTER EYKEL

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SUMMARY

Principal Software Engineer knowledgeable in all phases of software development from requirements definition to design, implementation, debugging and integration, documentation and release activities. Excellent communication skills that include project management skills as well as teaching computer topics at the college level. Highly self-motivated and works well in a team as an individual contributor or project leader.

TECHNICAL SKILLS

- Languages** C#/.Net, C++, C, Java, Unix Shell scripting language, Pascal, COBOL, FORTRAN, BASIC, VAX-11 Assembly Language, LISP, Digital VMS DCL (scripting language)
- Tools** Agile (Scrum) development process, Microsoft Visual Studio, Enterprise Architect, UML, Finite State Machines, MFC (Microsoft Foundation Classes), Bristol Technology's Wind/U porting tool, SQL (SQLite), Sherrill-Lubinski's Graphics Modeling System (SL-GMS), vi, adb, Source Safe, Purify, Bounds Checker, Sun Nse, SCCS, Continuus, Clearcase, PVCS, Make
- Platforms** Windows CE, Windows 98/NT/XP, UNIX, Sun Solaris

PROFESSIONAL EXPERIENCE

SIEMENS HEALTHCARE DIAGNOSTICS, Norwood, MA, 2007 – present

Principal Software Engineer

Designed and developed portions of an application to conduct medical assays for doctor's office and medical lab diagnostic equipment in C#/.Net using Windows and Windows CE. My components were involved in orchestrating the operations of a number of motors and software subcomponents to conduct chemical analysis of medical samples. Developed a sequence language processor to allow script file control of motors and sensors.

NETWORK ENGINES INC. Canton, MA, 2006 – 2007

Consulting Software Engineer

Designed and developed an alarm handling system to which application would log alarms. The system would store the alarm information in a local database using SQL and then perform user-configured actions that include sending email to a designated list of user. The system would also handle user-interface requests for alarm list information. Developed in C++ on Windows using COM, SMTP and SQLite.

INVENSYS INC. (Formerly The Foxboro Company), Foxboro, MA, 1986 – 2006

Principal Software Engineer, ArcestrA Group, 2005-2006

Designed and developed several applications for interconnecting the Invensys I/A Series process control system with the Wonderware Corporation's ArcestrA system. C# and C++ using MS Visual Studio.

- C# application to provide secure access to I/A Series process control data via a multi-threaded server application. Collected and recorded process and network management alarms in a high-speed, time critical server.

Principal Software Engineer, Foundation Fieldbus Department, 2003-2005

Designed and developed Foundation Fieldbus-specific user interface changes to the System Management user interface package. Developed COM-based tools used to communicate and interact with FF H1 devices.

- Fieldbus work improved access to FF H1 device information improving integration between Invensys' I/A Series produce and Foundation Fieldbus devices.

Principal Software Engineer, Man-Machine Interface Department, 1994-2003

Managed 3 software projects and supervised 4 development and test engineers. Provided technical and administrative direction to the team as well as design and programming work. Interacted with both internal and external customers and third-party vendors regarding product deficiencies, new features and

general customer support. This product was developed on Windows and ported to Unix. (Sun Solaris and Venix)

- Work on the FoxDraw configurator package that contributed to significant reduction of engineering time for our customers.

Senior Software Engineer, Wonderware Project, 1998-1999

INVENSYS INC. (continued)

Designed and implemented several medium size software applications to be run on both the Windows NT and Sun Solaris platforms. Developed the high-level software design followed by implementation and testing and technical and user documentation.

- Developed a server application to provide I/A Series Object Manager data to Wonderware InTouch applications. Partnered with Wonderware developers, marketing and testing groups to bring the product to market.
- Designed server applications that collected measurement and alarm information for presentation to users.
- Graphical configurator applications used to design displays representing process control equipment and processes

Software Engineer, System Management Department, 1986-1994

Designed, implemented, tested and supported several major portions of a real-time network management system. This system monitors intelligent, remotely located equipment, reporting operational status to operators and allowing these operators to initiate actions on the equipment. This product is still in use today. All applications developed on Unix (Venix) and ported to Windows.

- Designed and implemented the human interface portion of the IA Series network management system. Operational status and configuration information is presented in a graphical format and allows operators to perform actions on any of the pieces of equipment.
- Developed and maintained a large server program that monitors the status of process control and network management equipment and reports status information to human interface packages.
- Oversaw all phases of the new product release. All documentation, software design, and release procedures conformed to ISO 9001 standards.

ADDITIONAL PROFESSIONAL EXPERIENCE

Visiting Instructor for undergraduate and post-graduate college classes.

Designed and presented C, C++ and Computer Organization and Design classes including the course curriculum, handouts, assignments, and presentation materials.

WHEATON COLLEGE, Norton, MA

Visiting Instructor of Computer Science, 2005-2007

NORTHEASTERN UNIVERSITY, Boston, MA

State of the Art Program Instructor – C & C++, 1999-2002

EDUCATION

MBA, Bryant College, Smithfield, RI, Computer Science Concentration

BS, Computer Science, Northeastern University, Boston, MA, Business Administration minor

PROFESSIONAL ASSOCIATIONS AND CERTIFICATIONS

IEEE Certified Software Development Professional, CSDP, 2003 - Present

PROFESSIONAL DEVELOPMENT

MFC (Microsoft Foundation Classes) software development, Windows SDK programming, Foundation Fieldbus, Software Development for Windows NT, Windows NT Internals, Object Oriented Programming Techniques, Microsoft Programmers Development Conference, WinDev - Developers Conference for Windows, Sun Solaris Developers Conference, UML

Project Management, Time Management, Public Speaking, and Technical Writing