

Jason Plumb

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Objective

Seeking a position with a creative and energetic engineering team to build great embedded products.

Experience

Qsent Inc, Portland, OR

Senior Software Engineer (Dec. 2003 – Present)

- Designed, implemented, and maintained high-volume data processing systems for data replication and realtime queries.
- Technical project lead on large data processing and replication engine, responsible for a substantial percentage of company revenue.
- Technologies: Java 5.0, Eclipse, JUnit, Spring, JDBC, Oracle, MySQL, Tomcat, SOAP, XML, WSDL, JSP, JSTL, JMS, JMX, JNDI, JNI, bash, Perl, CVS, Subversion, LDAP, Active Directory, Anthill, Ivy, Fit, Hudson.

Fluid Logic, Clackamas, OR

Embedded Engineering Contractor (2002-2004)

- Designed and constructed the MIX-PRO flocculant timer/controller system. Utilized Microchip PIC microcontroller, wrote software in PIC assembly, designed schematic, created printed circuit board.
- Designed and prototyped test equipment (hardware and software) for measuring coefficients of static friction. Utilized Atmel AVR, wrote software in C, interfaced with parallel LCD and serial clinometer. Developed using gcc and open source tools under Linux.
- Designed Fluid Logic website, managed email resources, general IT tasks.

GBSD Technologies Inc., Lubbock, TX

Embedded Engineering Contractor (2003-2004)

- Created assembly code for Microchip PIC and Motorola 68HC12 for use in the Compass e911 location system. Included SPI control routines and RS232 support.
- Assisted with PC serial interface code written in Perl.

Operator Service Company, Lubbock TX

Programmer/Analyst III, Project Lead (1997-2004)

- Designed and implemented control process and communications API for telephone line control device and out of band telecom switch signaling.
- Designed and implemented directory assistance gateway server, including custom document type definition (DTD) for extensible API in XML over TCP/IP. Implemented suite of protocol converter daemons for multiple data vendors, security functions, usage tracking, and billing.
- Designed and implemented national directory assistance client application for call center use (50,000+ calls / day).
- Designed and implemented generic framework for call center applications in a Windows environment.
- Generated database front-end applications, web-based reporting systems, automated billing record generation, operator activity auditing, operator account management interfaces, server and network monitoring processes, and numerous other infrastructure applications.

Education

- **BS Electrical Engineering**, Texas Tech University, 1999 (Cum Laude)
- **BS Computer Science**, Texas Tech University, 1999 (Cum Laude)

Extensive programming skills:

- C/C++ (10 years)
- Java/J2EE (5 years)
- SQL/JDBC/ODBC (8 years)
- Perl (8 years)
- XML, HTML, DTD, XSD (5 years)
- PHP (6 years)
- Microchip PIC assembly and C (5 years)
- MFC and Windows APIs (4 years)
- TCP/IP network programming, sockets, n-tier architectures
- Multithreaded and asynchronous software design

Other software experience:

- Javascript
- Bourne and other shell scripting
- GNU make/compile/debug toolchain
- RS232, SPI, and other device interface protocols
- Pascal, Delphi, Basic, VB
- 8051, x86, 68HC11/12 assembly
- Web and desktop UI design
- Linux and Windows installation and administration

Hardware Skills:

- Eagle, Accel, and PSpice (OrCAD) schematic capture and PCB design
- Prototype PCB fabrication using various techniques
- Microchip PIC, Atmel AVR, and Motorola 68HC11/12 microcontrollers
- Use of bench test equipment (multimeter, oscilloscope, etc)
- Digital and analog circuit design
- PC hardware assembly/testing/troubleshooting
- Network wiring and installation