Resume for Loren Lang

Personal Information

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Feel free to contact me at any time.

Career Goal

Hardware/Software Design Engineer.

Skills

Software. I Have experience using C/C++/Perl/PHP/ASM on Linux/UNIX based systems and PC based systems. In addition, I have C and assembly language programming experience with the PIC microprocessors and Freescale 8/16-bit microcontrollers. I have also done embedded system programming using Dynamic C for the Rabbit 3000 microprocessor.

I have experience with the TCP/IP protocol suite including IPv4 and IPv6, both as a network administrator and as a programmer. I also have experience with RS-232 communication.

I have used XML for storing and manipulating data for an E-Commerce shopping cart as well as for product documentation. This includes using XML Schemas for data validation and XSLT Stylesheets to transform the data into other forms. I have also worked with XML-RPC, SOAP, and WSDL.

Network Administration. I have network administration experience with Red Hat and Debian Linux, as well as FreeBSD and Mac OS X and with integrating Windows NT/95/98/ME/2000/XP into the UNIX environment.

I have used the Mozilla web browser for developing GUI applications for various systems including a product management system. Mozilla communicates with a SOAP server written in Perl running on an Apache web server. I have also written SOAP clients in Perl and Ruby for communicating with web services from Amazon, Google, and Teleauth.

Leadership. I have mentored several high school interns at Alzatex, Inc. and one early college intern.

Experience

Embedded Engineer: (Apr 2005 to Present)
Developed an Internet time keeping and data logging. It was designed to keep it's time up to date with the current time through an Internet connection using either the SNTP or TIME protocol. It can then report time to any number of remote clocks as well as log various external events to internal memory which can be downloaded through it's own web interface.

Embedded Engineer: (2004 to Present)
Developed a specialized USB Keyboard for EkaTetra which is designed for single handed data entry. It includes internal memory as well for storing and playing back data.

Test Engineer: (Apr 2003 to 2004)
Designed extensive test suite for analyzing the performance of and tuning various parameters of a Flow Control System developed by Daitron, Inc.

Network Administrator: (1999 to Present)
Setup and maintained a Linux-based Samba file server and Apache web server for Alzatex, Inc. Also setup FreeBSD-based mail servers for both Daitron, Inc. and EkaTetra.