CHRISTOPHER M. GREIVELDINGER
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Objective

Software Engineering position with an emphasis on research and development and project management.

Technical Knowledge

- Experience with user and kernel development for both Windows and Linux
- Extensive C programming experience for embedded systems and Linux
- File system development and support
- Experience with embedded system device drivers
- MySQL, PHP, and JavaScript programming
- Work with various microprocessors including Intel x86, Hitachi SH, StrongArm, NEC V850, Infineon C167, TI ARM + DSP cores, and Altera NiosII
- Knowledge of µITRON RTOS specification
- Familiar with CVS, Twiki, Subversion, and Bugzilla development tools
- Familiar with Java
- Use of Perl, Expect, and Python scripts

Experience

Oct. 2004 to Present — **PolyServe, Inc/Hewlett-Packard**, Beaverton, OR
Software Engineer

Duties:

- Technical lead for file system development team
- Development and maintenance of performance regression testing suite
- Resolution of bugs relating to file system utilities, file system core, or storage management portion of product
- Ensure proper documentation of new features

Accomplishments:

- After acquisition by HP, became file system technical lead, which involved being liaison between our team and other teams
- Assigned to develop core data management module in the file system
- Presented at company-wide technical conference
- Established performance testing procedures, which involved writing shell scripts to run tests and store results in a database and providing a web interface to the results

Assisted with integration of HP storage array snapshot capability with our clustered file system product, which was a requirement for establishing a partnership between the two companies
Assisted with the addition of sparse file support for the Windows version of our clustered file system product

Jan. 2004 to Oct. 2004 **eSOL, Inc.**, Portland, OR
Software Engineer

Duties:

Lead support engineer for embedded FAT file system, RTOS, proprietary Integrated Development Environment
Primary IT contact, administering remote Twiki website, FTP accounts, email, and local CVS server
Proofread documentation for all products

Accomplishments:

Developed IDE driver for proprietary hardware interface board
Added support to file system for Simplified Chinese and Big5 character sets
Ported RTOS to NiosII core
Integrated RTOS library into Eclipse-based IDE for NiosII CPU
Added support to TI's IDE for kernel awareness for eSOL's RTOS
Improved file system performance when utilizing FAT long file names

1998 to 2003 **U S Software/Lantronix**, Hillsboro, OR
Software Engineer

Duties:

Lead engineer for embedded FAT file system product
Provide technical support on file system, RTOS, TCP/IP, SSH, and SSL products
Write documentation for file system, RTOS, SSH, and SSL products
Develop and lead customer and distributor training sessions
Plan and manage summer intern projects
Plan and schedule new product development
Maintain automated testing system

Accomplishments:

Ported OpenSSL to embedded RTOS and reduced code size to approximately 100 KB
Developed embedded SSH and SSL packages and multiple-precision integer math library for public key cryptography
Developed support for FAT32 and ISO 9660 (CD-ROM) file systems
Added file system support to embedded web server product
Resolved more than 100 bugs in file system product

Improved performance in file system product, in some instances by as much as 500%
Prototyped embedded TCP/IP stack in C++
Investigated developing embedded client for MySQL database

1997 to 1998 **Max-Planck-Insitut für Extraterrestrische Physik**, Garching, Germany
Max-Planck-Institut Fellow

Wrote and utilized Fortran and UNIX C-shell tools for data analysis
Processed and analyzed X-ray images in preparation of scientific publication
Calibrated energy response of X-ray sensitive Charge Coupled Device (CCD) for use on European Space Agency satellite
Developed software for analysis of X-ray CCD data
Presented scientific results at international meeting

1992 to 1997 **University of Wisconsin--Madison** (Department of Physics)
Research Assistant

Prepared and implemented Fortran and C programs for data analysis
Utilized Fourier techniques for detection of periodic signals in astronomical data
Designed and tested electronic circuitry for sounding rocket experiment
Prepared housing for sounding rocket circuit boards

Education

Ph.D., Physics, University of Wisconsin--Madison, 1997
B.S., Physics, University of Notre Dame, 1992 (Summa Cum Laude)

Awards

Max-Planck-Institut Fellow (1997-1998)
University of Wisconsin Teaching Fellow (1996)
American Association of Physics Teachers Outstanding Teaching Assistant (1995)
Wisconsin Alumni Research Foundation Fellow (1992-1993)

Knowledge of basic written and spoken German.