

Matthew S. Wood

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OBJECTIVE

A position as a senior-level software engineer and technical lead with emphasis on software design and development.

SUMMARY

Over 10 years of extensive experience in the field of computer science spanning kernel software development, software integration on the world's fastest supercomputers, embedded application development, Linux distribution development, team leadership, and heterogeneous network and system administration. Particularly effective in the fields of operating system research and development and technical training.

EMPLOYMENT HISTORY

Technical Lead, Research and Development, Realm Systems, Inc, 2004-Present.

- Technical lead of enterprise product line, designing and overseeing operating system, software, and user interface development and deployment.
- Porting and continued maintenance of Debian Linux distribution on the PowerPC 405 architecture.
- Ported various Linux applications to Windows, including vtun, SliRP, and esound.
- Designed and implemented Linux virtual device drivers, including network and sound abstractions.
- Worked with and provided patches for various open source projects, such as Qemu, Busybox, Debian, and Alsa to improve their software and include support for the company's products.
- Designed integrated VOIP solution, including Asterisk relay to integrate with legacy PBX networks and portable integrated VOIP client.

Senior Software Engineer, Technical Lead, Linux Networx, 2002-2004.

- Technical lead of storage group, directed development and design of flagship storage product.
- Invented, developed, and maintained a revolutionary Linux filesystem.
- Assisted in maintenance of Lustre global filesystem..
- Kernel device driver development and maintenance.
- Training inter-company and intra-company software engineers on supercomputing topics.
- Software integration lead for world's fastest Linux supercomputer (2002).
- Consulting with industry application developers about optimization and problem-solving.

Senior Software Engineer, Liberate Technologies, 1999-2002.

- Developed and maintained Linux and VxWorks device drivers.
- Ported and maintained company's flagship product to various embedded systems.
- Developed new low-level APIs for company's software portability layer.
- Implemented software security protocols through creating and auditing custom modules.
- Trained company's software engineers on embedded programming fundamentals.

Founder and Project Leader, Stampede Linux, 1997-1999.

- Invented and developed Stampede Linux distribution.
- Coordinated development from volunteer developers around the world.
- Coordinated Internet and store front software distribution.
- Ensured system speed, security, and stability.

Senior System Administrator, DirecTell, 1998-1999.

- Provided Linux system administration and development of administration tools.
- Developed SQL database and PHP management software for simplified customer accounting and billing.
- Developed and maintained network security practices and protocols.

TECHNICAL SKILLS

- Expert knowledge in C, C++, UNIX, Linux, VxWorks, OS20, Windows, TCP/IP, System Administration, and System Level Development.
- Proficient knowledge in Asterisk, SIP, H.323, C#, Assembly, Java, JavaScript, Pascal, SQL, LaTeX, Perl, and PHP.

CAREER ACCOMPLISHMENTS

- Current technical lead, inventor, and designer of a completely integrated, scalable, global hardware and software storage solution for supercomputers. Product launched November, 2004.
- Invented and developed revolutionary Linux filesystem enabling copy-on-write multi-system shared filesystems.
- Software integration lead on world's fastest Linux supercomputer.
- Participated in development and maintenance of set-top box interactive television software used in millions of residences and hotels world wide.
- Developed, maintained, and brought to market first processor-optimized Linux distribution.

SPECIAL ACHIEVEMENTS

- 2002: Technical lead of software integration on the MCR computer, the world's fastest Linux Supercomputer.
- 1999: First recipient of \$12,500 IDG/Linus Torvalds Community Award for excellence in Linux software as a result of Stampede Linux research and optimization.
- 1995: Recipient of Albertson's Service First Award for excellence in customer service; company's highest honor.

EDUCATION

Salt Lake Community College, 2002-2004, Chemistry, 3.97 GPA, AS Chemistry, AS Physics
University of Utah, 2004-Present, Physics, 3.9 GPA.

PERSONAL

Licensed private pilot with high performance and complex ratings.