

Senior Firmware Engineer / System Architect

Demonstrated expertise in all phases of product development at companies including Sun Microsystems, I.B.M., Fujitsu and LSI Logic, based upon M.I.T.-Education and 15+ years of experience.

Qualifications:

- Supported Enterprise Systems Infrastructure Software on multiple hardware platforms.
- Solved problems in languages and on hardware with which I was previously unfamiliar.
- Defined firmware features based on technical, marketing, business and testing requirements.
- Coordinated implementation teams across organizations.
- Programmed Linux device-drivers and Solaris applications in multi-threaded environment.
- Sustained and enhanced post-release software, leaving code in more manageable and easily maintainable condition.
- Familiar with writing requirements, design and interface specifications and obtaining agreement on same.
- Champion for best software practices and processes, including design and code reviews and inspections.
- Experienced with Cross-Industrial Standards Committees and Company-internal committees
 - IEEE P1275 Boot Firmware Standard – aka “Open Firmware” – Committee
 - FirmWare Architecture Review Committee – aka FWARC – at Sun Microsystems
- Built teams, led teams and cross-collaborated with members of other teams.

Skills:

- Software development in the Embedded / Firmware space, down to Low-Level, “the bare metal”.
- Optimizing within extreme resource-constraints of memory, compute-speed and time.
- Sustaining existing products. Debugging “Legacy” code, leaving it manageable and maintainable
- Architecting, designing, developing and documenting embedded software systems and components
- Providing technical leadership: establishing standards, partitioning tasks, conducting code inspections
- Supporting hardware team: Specify and review functionality, identify malfunctions, develop workarounds
- Leading or participating in design, specification and code reviews and inspections
- Subjecting my own code to extensive and complex unit- and regression-testing before Alpha pre-release
- Training and supporting Field Application Engineers and both internal and external customers, vendors and development partners.
- Interface development: machine-to-machine and user-to-machine
- Developing and supplementing programming tools, including Scripts, Programs and Coding Templates
- Trapping elusive intermittent bugs – and fixing same – using innovative techniques.
- Solving complex cross-operability, system, hardware, and software problems.
- Mentoring junior team members. Teaching coding style and debugging techniques.

Key Accomplishments:

- Tamed quality problems in Sun's Mid-Range Enterprise Server product-line, which had been perceived by customers as unstable due to issues in the “Legacy” firmware, and turned it into a rock-solid best-seller. In 18 mos, growth exceeded 35%. Q4 revenue exceeded \$1Billion.
- Improved Reliability, Availability and Serviceability (R.A.S.). Reduced testing costs. Increased sales.
- Reduced customer complaints and cost of porting O/S by co-ordinating with cross-disciplinary project teams to establish uniform Firmware Interface Standards.
- Evaluated project teams' proposals; redirected some teams to more cost-effective solutions.
- Delivered complete embedded firmware for numerous products error-free, under budget and on time.

Education:

Massachusetts Institute of Technology

Professional Experience History:

Available upon request