

## 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.
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### 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.
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### 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.
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### Education:

Massachusetts Institute of Technology

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### Professional Experience History:

Available upon request.