

James Argabright

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PROFESSIONAL SUMMARY

Senior Software Engineering Manager with extensive experience in software development, QA, and customer support:

- Exceptional people management skills
- Experienced in all stages of software development
- Strong technical / engineering background

EXPERIENCE

Sun Microsystems **Burlington, MA**

1992 to 2007

Senior Software Engineering Manager

Managed "MDE Vertical Markets" a team of 27 engineers, mathematicians, and programmers with an annual budget of \$4 million. Team dedicated to the development, porting and performance tuning of C/C++ and Java software applications in the science and engineering technical markets. Provided engineering resources to ISVs (Independent Software Vendors) for product development, certification, and new technology adoption. Handled all customer facing issues with respect to stability and performance issues.

- Highest employee "Management Excellence" score in organization
- Lowest employee attrition rate of any department
- Handled all engineering support issues for five diverse vertical markets: Education, Energy, Financial Services, Life Sciences, and Manufacturing (MCAD, MCAE, MES, PDM)
- Led peer directors in development and definition of parent organization's fiscal year goals involving both hardware and software initiatives spanning multiple vertical markets and international in scope
- Organized and led diverse cross-departmental team to produce a symposium of speakers and training for audience of 250. Speakers included CEO, company President, CTO and other company luminaries. Symposium considered "the best ever given"
- Led cross-departmental team for "ISV Hardware Adoption" which drove hardware beta programs to guarantee that software applications ran flawlessly on all Sun hardware platforms

Software Engineering Manager

Managed "MDE High Performance Technical Computing", a team of 16 engineers, mathematicians, and programmers dedicated to performance tuning of software applications in the scientific and engineering vertical markets (MCAD, MCAE, and PDM).

- Received Sun's highest performance rating, "Sun Superior", six consecutive years
- Highest employee "Management Excellence" score for department
- Highest "per employee" productivity metrics in department
- Worked with marketing and sales personnel to identify key software projects yielding the highest rate of return and greatest strategic value
- Created, implemented and managed online "metric-based" reporting system to track accomplishments for month, quarter, and fiscal year.
- Created and ran bi-annual group programming contest to motivate and drive employee programming expertise

Software Staff Engineer

Staff engineer for high performance technical computing (HPC) with a special emphasis on high-end 3D computer graphics.

- Developed and received a US patent for a software “mechanism” to capture 2D and 3D computer images for animated playback without requiring the original application
- Developed and wrote a 3D graphics pipeline for the “Java Station”. Demoed at a multitude of trade shows
- Developed and wrote the Java3D demo for Super Computing for the display of fluid dynamics “vorticity” data

Software Engineer

Software engineer specializing in high-end 3D graphics and customized display lists for the MCAD vertical market.

- Rewrote the Sun 3D graphics driver for the UGS NX MCAD software application. Moved performance from last to first against competitors
- Won “engineer of the quarter”. Nominated more times than any engineer in organization

PDA Engineering Costa Mesa, CA 1989 to 1992

Software Engineer

Designed and coded 3D graphics pre and post processors for Patran, a FEA (finite element analysis) software application, for both the Sun and SGI workstations. Created the first commercially viable 3D driver for Patran for the Sun workstation.

Philips Ultrasound Santa Ana, CA 1988 to 1989

Software Engineer

Project lead for the design and display of realtime Doppler data for the measurement of blood flow for the Philips Platinum ultrasound medical scanner.

Northrop Corp Pico Rivera, CA 1983 to 1988

Software Engineer

Developed software for the simulation, analysis and graphical display of jet engine and aerodynamic performance data for the B2 bomber.

AWARDS / ASSOCIATIONS

- US Patent (#6392665) for “Capture Mechanism for Computer Generated 2D & 3D Images”
- Certified Java Programmer
- Sun Microsystems MDE Engineer of the Quarter
- ACM (Association for Computing Machinery)

SOFTWARE

C/C++, Java, FORTRAN, Java3D, OpenGL, HTML, XML, Six Sigma, UNIX, Solaris, Windows

INTERESTS

Competitive cyclist, Road and MTB, USA Cycling international racing license

EDUCATION

BS Mechanical Engineering, Brigham Young University