

Ed Gavin

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Software Engineering Management

Software Development • Analytical & Clinical Instrumentation • Biotechnology • Medical Devices

Software engineering manager with 12+ years experience developing products in biotechnology, instrumentation and medical devices. Architected commercially successful solutions for technically challenging projects in chromatography, mass spectroscopy, *in-vivo* optical imaging and medical devices. Proven track record of creating innovative desktop, database and web software on time and within budget.

Professional Experience

Life Technologies, Foster City, CA

2010-Present

Sr. Manager, Software Engineering

Life Technologies is a global biotechnology tools company with over 9000 employees and more than 3 billion dollars in annual revenue.

- Managed the Foster City software development group responsible for real-time PCR instruments.
- Worked closely with program managers, product managers and stakeholders to define high-level requirements and schedule for a diagnostic system to be submitted to the FDA in a 510K filing.
- Coordinated with off-shore development and test teams to optimize the cost and delivery schedules for multiple projects.

PolyRemedy, Mountain View, CA

2008 –2010

Software Development Manager

PolyRemedy is a privately-held startup that manufactures a robotic system for the fabrication of nano- and micro-fiber wound treatments.

- Hands-on manager of a small group of software engineers and SQA to develop software for an innovative robotic medical device which manufactures custom wound dressings.
- Software included a WPF touch-screen client and a web application for remotely ordering dressings over the internet.
- Established an FDA-complaint SDLC and met critical milestones for customer beta trials and filing a 510(K).
- Implemented tools and processes for issue tracking, code reviews and source control.
- Utilized C#, WPF, ASP.NET, AJAX, SQL Server 2005 & 2008, CruiseControl.NET & Subversion.

Caliper Life Sciences, Alameda, CA

2006 –2008

Director of Software Engineering

Caliper Life Sciences is leading provider of microfluidics and optical imaging. I initially joined Xenogen, which was acquired by Caliper in 2006. Xenogen developed a market-leading biophotonic technology that enables real-time, non-invasive exploration of genes, proteins, pathogens and tumor cells in living animals.

- Managed in-house software developers, SQA and off-shore resources to design and build cross-platform software for a commercially successful line of 2D and 3D optical imaging systems.
- Transitioned Living Image™ software from IGOR Pro to C++ and QT on the Windows and Mac OS X platforms. Reduced license fees and improved margins on Living Image.
- Drove initiative to implement software licensing. Licensing increased software revenue and allowed new initiatives with trial software. Trial software program resulted in additional system sales valued at over \$300K.
- Utilized Microsoft Visual Studio, C++, QT, OpenGL, Perforce SCM, and Jira for issue tracking.

Ciphergen Biosystems, Fremont, CA

1997 –2006

Director of Software Engineering

Ciphergen developed, manufactured and marketed the ProteinChip® system to enable protein characterization and biomarker discovery using mass spectrometry. In 2006, the company sold the life science business to Bio-Rad. In 2007, the firm changed its name to Vermillion, Inc.

- Joined Ciphergen as a software engineer and was promoted to software engineering manager and then director. Helped grow Ciphergen from an early-stage startup to a public offering and over \$60 million in annual revenue.
- Recruited and managed a team of that grew to 18 software and SQA engineers. Established an ISO 9001-compliant software development process including configuration management and defect tracking.
- Led development of Ciphergen Express™, a powerful software suite for proteomics and biomarker discovery. Ciphergen Express was written in Java and utilized MySQL or Oracle for the back-end RDBMS.
- Utilized C++, Java, Swing, MySQL, DevTrack, Perforce SCM, Compuware QA Director.

Wise Medical Systems, Los Gatos, CA

1996 –1997

Sr. Software Engineer

Wise was a privately-held startup company developing an innovative electronic medical record system utilizing wireless technology. Wise terminated operations in March of 1997 due to a lack of funding.

Dionex Inc, Sunnyvale, CA

1980 - 1996

Staff Software Engineer

Dionex manufactures liquid chromatography systems and is the world leader in ion chromatography.

- A principal developer of PeakNet™, a commercial successful chromatography automation system.
- Held additional positions including **Process Development Group Manager** and **Sr. Field Service Engineer** during my tenure with Dionex.

Education

Bachelor of Science in Computer Science Technology, Thomas Edison State College
 Certificate in Software Engineering, University of California Extension at Santa Cruz
 Project Management Methodology & Leadership Training S2insight, 2010