

Summary

I have extensive experience leading software development efforts, using a variety of technologies to develop solutions ranging from air traffic control to mobile applications. I am experienced in establishing both Agile and Waterfall processes to improve the value and speed of software development. My background as a developer is key to my ability to lead technology teams. I believe successful teamwork comes from process and transparency.

Achievements

- Managed successful development and deployment of an Air Traffic Control voice switch for Zürich Switzerland, and provided on-site support through planning, transition, and maintenance.
- Managed the only application demonstrated by Steve Ballmer at the Vista/Office 2007 launch, a 3D molecular modeling tool.
- Received the first Enviance Manager of the Quarter award, voted by peer managers group.
- Received the SAIC COMSYSTEMS Division Technical Excellence award.
- Authored SAIC's Common Approach Software Development Handbook v2 and created a training course aimed to achieve SEI level 3 company wide.

Projects

Air Traffic Control	Managed and developed code for a voice switch for swisscontrol, providing ground voice communications for air traffic controllers throughout Switzerland and neighboring countries.
Mobile Applications	Managed development of a variety of custom mobile applications beginning with the first smart phones to the current iOS and Android devices. Applications included the first Zagat mobile, field insurance agents, pharmaceutical sales reps, multi-player gaming, and environmental compliance data collection.
BioTech Research	Managed development of a molecular modeling tool that allows SARS and cancer researchers around the world to collaborate and annotate on 3D views of proteins. Published article .
SharePoint Portals	Built numerous SharePoint portals including custom web apps. These portals include both enterprise intranet as well as public facing content management systems.
Toll Road Automation	Managed development of several automated toll collection systems that include automated vehicle identification.
Document Imaging	Managed server-side development for MOSAIC, a paperless office and archival system.
Database Integration	Managed development of a database integration between IBM and DEC SQL databases.
Language Processors	Lead developer of preprocessors to convert old versions of programming languages to newer versions, upgrading syntax and functions.
Interactive Development	Lead development of an interactive developer studio for IBM mainframes.
DoD	Designed and programmed Anti-Submarine Warfare System database engine.



Enviance – Development & Process Manager**2007 – present**

Enviance is the leading SaaS (AWS cloud) solution for environmental compliance, health and safety (EH&S). Responsible for development of desktop and mobile applications and integrations utilizing HTML5 with IndexedDB and RESTful web services. Manage multiple offshore development teams utilizing Agile Scrum within Jira and Confluence. Lead a cross functional team in process improvement across the company. Moved the traditional waterfall approach to an agile process across all product lines and multiple offshore teams. Configured Jira and Confluence to support the agile projects, built a company-wide SharePoint portal, configured back-office systems (OpenAir and Salesforce), and lead the training program for the annual User Conference.

InterKnowlogy – Director of Development**2003 – 2007**

InterKnowlogy is a Microsoft Gold Partner providing services specializing in Microsoft products and .NET technology. Responsible for program management of consulting and custom applications using an Agile SCRUM methodology. Established project management processes and PMO. Projects included a variety of custom applications both web and native client applications, mobile applications, SharePoint corporate portals, legal case tracking portal, and various consulting engagements. Managed C-ME project, a 3D community-based, real-time collaboration tool for scientific research and training of molecules.

Wireless Knowledge – Director of Professional Services**2000 – 2003**

Wireless Knowledge was a Microsoft and Qualcomm joint venture to launch mobile applications on internet enabled phones. Responsible for the professional services practice focused on custom mobile application development. Delivered both web-based and native mobile applications that spanned many vertical markets including healthcare, insurance, and financial. Developed custom applications for Microsoft, Zagat, AXA, Household, Qualcomm, Pfizer, iMetrikus, and other early adopter companies.

SAIC – Program Director**1979 – 2000**

Mobile applications – Managed professional services for a mobility company launching their mobility product that allowed access to corporate email, contacts, and calendar from any mobile device. Managed relationships with several wireless carriers, planning and implementing their mobile product launches and supporting infrastructure.

Internet services and telecommunications – Managed development of automated provisioning processes for Level 3 Communications to provide long-haul private lines, co-location services, and Internet services. Integrated several Internet services (DNS, Email, Routing) using the Siemens Service Coordinator.

Air traffic control – Managed and developed software for a fault-tolerant voice switch for air traffic controllers in Zürich, Switzerland, improving their ability to communicate with neighboring control centers by using a variety of audio circuits for hotlines and call routing. The system consisted of 40 processors each with specific real-time roles. These processors communicated on a VMEbus, serial highway, and TCP/IP. The real-time embedded components ran on pSOS, while the system management components ran on Windows with SQL Server. Supervised software engineers, programmed, and served as principal custom interface. Sole engineer who provided on-site support in Zürich for 19 months preparing for the switchover coordinated integration with neighboring countries, trained controllers and maintenance personnel, acted as SQL Server DBA and Windows Administrator, provided 7/24 operational support to the air traffic control center.

Toll road automation – Managed software engineering (40 software engineers) for all Transportation Division projects. The primary product was Advanced Revenue Collection System (ARCS), an Automated Vehicle Identification (AVI) product using Oracle and networked to lane controllers running a custom real-time multi-tasking version of DOS. Authored R&D proposals and managed prototype effort to port the lane controllers to UNIX.



Document imaging – Managed server-side development for SAIC's document image product MOSAIC, storing and indexing document images on disk or optical jukebox.

System software – Managed the development of several system software products for IBM. Performed as principal technical interface with the IBM, managed proposals, staffing, financial tracking, software design, programming, and technical training of IBM personnel. Projects included:

- Integrating databases from IBM to several on DEC database.
- Interactive software development facility for IBM mainframe environments.
- Interactive monitor and control system for IBM mainframes.
- Language conversion products (FORTRAN and COBOL) for IBM mainframes that convert old code to new versions of the languages.

DoD – Designed and programmed a database management engine for the Anti-Submarine Warfare Control System (ASWCS) project, creating the access methods for all command and control components. Performed configuration management and developed tools. Designed and performed sizing and timing studies on the ASWCS database manager.

Online education – Programmed a feasibility model for a online education management and delivery system.

National University – *Instructor*

1983 & 1992

Performed as a part-time instructor in the Computer Science department, prepared and delivered lectures, exams, and programming assignments. Courses included Project Management, BASIC, and Pascal programming.

Education

Bachelors: Computer Science, San Diego State University

Minor: Business Information Systems

