

Software Engineer / Software Test Engineer

Areas of Expertise

Application Programming Software Quality Assurance Technical & End-User Documentation
Development Planning & Execution Specification Generation Source Code Management

Software Experience (Yrs)

LANGUAGES		ENVIRONMENTS		TOOLS & UTILITIES	
• MS C, Visual C++	10+	• MS Windows 98, NT, XP, 2K	8	• MS Office (Word/Excel/Outlook...)	10+
• Pascal	8	• MS DOS	10+	• InstallShield 7.0	3
• DOS Batch files/scripts	10+	• Linux	1	• StarTeam VCS	5
• HTML & RTF	1	• Solaris	1	• Polytron PVCS/PolyLib/PolyMake	10+
• Assembler	3				
• Fortran	5				

IN GENERAL

- All phases of the software development life cycle (SDLC), from requirement generation through design & implementation, to installation and training. Familiar with Capability Maturity Models (CMM).
- Experience in a variety of fields: aerospace, education, manufacturing, construction, and language research.
- Both Object-Oriented and Structured Design approaches.
- Software Failure Analysis.
- Solid communication skills with clients, peers, and supervisors.

Key Achievements / Professional History

Owner, Quintessential Software, LLC; Littleton, CO; 9/99 – Present

- Co-designed and built a complex Cost Estimation program for a local highway construction company, including UI and report design, resulting in an easy-to-use and intuitive application for DOTs, Engineers, and Contractors.
- Developed a small RTF markup program that color-coded specified Parts of Speech for a client doing research on concept retention in education.

Software Engineer / Project Lead, Tabernus, LLC (formerly PTI); Lakewood, CO; 1/99 – 9/03

- Developed and maintained complex SCSI (U160, U320) & Fibre Channel test software for a wide range of clients in the SCSI/FC manufacturing & mass storage industries, including Seagate, Hewlett-Packard, Dell, StorageTek, Maxtor, and many others.
- Designed, implemented, and operated a QC and Development Test Lab, including equipment needs, inventory, assembly, and the design and setup of automated Systems and Unit Testing, saving time and effort during qualification of above SCSI/FC test software releases.

Technical Group Leader, NCS Pearson (formerly McGraw-Hill School Systems); Denver, CO; 3/86 – 1/99

- Developed comprehensive school administration software package and related tools utilized by elementary and secondary schools throughout the United States. Created requirement, functional, and design specifications; and secured customer approval of specifications as required. Also performed and/or managed implementation (coding), systems testing and quality assurance, creation of test plans, production of release versions, user documentation, and maintenance (bug fixing). Authored roughly half (500,000 lines) of the package, and maintained entire package.
- Successfully planned and supervised several major modifications of the above school administration package under tight timelines, resulting in greatly enhanced functionality and applicability. Coordinated development with Product Management, Software Quality Assurance, and Documentation departments. Estimated levels of effort on both small and large projects, and devised schedules.
- Worked closely with various states' Departments of Education to devise solutions to difficult issues.
- Presented seminars in use of the school administration product in national user group conventions.
- Developed company-wide interface guidelines, software version control methods using PVCS, and production procedures.
- As Software Librarian, managed source code library and production of release versions.
- Conducted performance and salary reviews, and prepared project budgets.

Education

- BA, Computer Science & Chemistry (double major) from University of California at San Diego; La Jolla, CA.
- Coursework in Chemistry and Geology at Colorado School of Mines; Golden, CO