

David W. Walker, MS, ASQ CSQE

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Career Objective

Apply Software Quality Assurance and Process Management principles to enhance customer satisfaction and improve organizational effectiveness.

Summary

25+ years experience in software engineering and software quality assurance across biomedical, aerospace, pharmaceutical, telecommunications, financial/insurance, and automotive industries. Competent in software engineering, applied quality assurance principles, software process management, and regulatory compliance. Experienced consultant, facilitator, team leader, project manager, coach and teacher. Results oriented, opportunistic.

Please see my LinkedIn page above for endorsements of my work.

Skills and Applied Knowledge

(Only significant experience listed)

Formal Requirements Management	CMMI Training & Assessments
Project and Safety Risk Management	Software QA Training
Software Quality Assurance	IEEE Software Engineering Standards
Strategic Planning, Organizational Development	ISO 9001, 12206, 15504, 13485, 14971
Software Quality Management Principles	IEC 62304, 80002
Configuration Management	Software Metrics
Software Life-Cycles & Processes	Technical: Strong C/C++, UNIX shell
Peer Reviews & Fagan Inspections	Technical: Oracle PL/SQL, Pro-C
Cross Platform Automated Software Testing	Technical: Embedded RTOS's

Education

Master of Science Computer Science	May 1994	Northwestern University Evanston, Illinois
Bachelor of Science Electronics Engineering Tech	October 1985	DeVRY Institute of Technology Addison, Illinois

Experience

Consulting

1/2004 – present

David Walker SPCS, LLC– Kalamazoo, Michigan

Successfully led software engineering organizations to CMMI Maturity Level 2 & 3.

Various concurrent consulting assignments with medical device and aerospace R&D organizations. Working with project teams to define and deploy improvements to software development processes. Coordinating class A, B, and C CMMI appraisals. Conducting CMMI Training as an SEI Authorized CMMI Instructor.

Coaching software project teams, performing independent audits, writing quality management plans, and delivering training to project teams.

Validated software for class II & III FDA regulated medical devices. Led reviews of requirements, designs, code, and tests. Performed integration and system testing and documented requirements traceability and software risk mitigation. Developed software testing tools for embedded systems and Firewire networks. Led strategic planning. Developed software SOPs. Led software risk management. Assisted in software design and coding where needed.

Moderate exposure with software engineering processes compliant with RTC DO-178B.

Senior Information Scientist

9/2001 – 1/2004

Pfizer - Kalamazoo, Michigan

Responsible for systems and software applications used worldwide in a regulated computing environment. Developed and supported automated test suites. Supported FDA computer systems validation for the department. Involved in 21 CFR Part 11 gap analysis and remediation. Led teams to develop SOP's for business continuity, periodic review, server change control. Trained personnel on tools and validation. Led a CMM-based assessment, and various validation efforts.

Software Quality Engineer 1/1996 – 9/2001	<u>Comsys</u> – Kalamazoo, Michigan Assigned to Pfizer to develop and validate system software applications in C, C++, and UNIX shell in a Sun/HP computing environment. Software Quality Engineer for Venturi Partners' on-site projects. Led numerous validation projects. Performed training for UNIX based software applications and Oracle development tools.
Lead Quality Engineer 8/1994 – 1/1996	<u>Motorola</u> – Arlington Heights, Illinois Implemented a software quality management program through cross-functional teams in a large software organization. Facilitated continuous improvement using SEI CMM and Motorola Quality System Review framework. Worked closely with development groups and management in a very interactive role; selling, coaching, training, leading. Performed internal software process assessments and supplier audits.
Instructor 8/1994 – 12/1995	<u>College of Lake County</u> – Grayslake, Illinois Taught evening courses in algebra and trigonometry.
Software Quality Engineer 8/1991 – 8/1994	<u>Abbott Laboratories</u> – Abbott Park, Illinois Responsible for software quality assurance plans, validation plans, test plans and procedures, software testing tools, and automated tests for FDA regulated medical devices. Led testing teams. Involved in CMM Level 2 and ISO 9001 initiatives.
Lead Quality Engineer 8/1988 – 8/1991	<u>AT&T Bell Laboratories</u> – Naperville, Illinois Designed real-time database software in C on large UNIX phone switching systems. Participated on software process improvement teams.
Instructor 10/1985 – 6/1989	<u>DeVRY Institute of Technology</u> – Addison, Illinois Taught evening courses in electronics and college mathematics.
Lead Quality Engineer 10/1985 – 8/1988	<u>Reuters</u> – Franklin Park, Illinois Systems engineering, writing software, assembling and integrating board level computer systems, and system testing. October, 1986 - Software Test Manager with 4 direct reports.
<hr/> Professional	<u>Senior Member</u> - American Society for Quality (ASQ) <u>Certified</u> – ASQ Certified Software Quality Engineer (CSQE) <u>Immediate Past Chair</u> - ASQ Software Division Council (2006-2008) <u>Authorized CMMI Instructor</u> – Software Engineering Institute (SEI) <u>Voting Member</u> – Medical Device Software Standards Committee, Association for Advancement of Medical Instrumentation (AAMI)