

Frank J. Spina

Professional Profile

Well-rounded technical professional, **22 years Quality Engineering** experience including **10 years Quality Systems** and supporting **Software Applications Development**, **5 years Electrical Engineering Design** experience, **12 years Product Development and Launch** experience in a **wide range of industry, detail-oriented and excellent self-starter**

Education

Rochester Institute of Technology (RIT)
Bachelors of Science, 1987
Electrical Engineering Technology

Mohawk Valley Community College
Associate of Applied Science, 1984
Electrical Engineering Technology

Computer Skills/Standards Knowledge

Microprocessor Assembly Language, MS Visual Basic 6, Lotus (C++),
Web (React, Angular, Vue, Python, PHP, NodeJS), UNIX, AGILE,
ISO-9001, ISO-13485, TS16949, AS9100, FDA 21 CFR 820, IEC/EN 60601-1,
UL-544, ASTM D-4169, Bellcore Issue 6,
MIL HDBK 217NK, Military and NASA Standards, RELEX FMEA and Reliability; Windchill PDM

Certifications /Affiliations

Certified Quality Engineer
Certified Internal Lead Auditor (RABQSA)

Certified Six Sigma Green Belt
American Society for Quality

Experience

3/11 - present **Jabil Design & Technology Services**, St. Petersburg, FL

Project Manager & Software Architecture and QA

- Designed and developed web forms using React and integrated the UI web components
- Implemented a base functionality using TypeScript while adhering to best practices
- Developed a single-page web application for real-time monitoring and analytics
- Created self-contained, reusable, and testable modules and components
- Participated in new feature development as well in the maintenance of existing features and bug fixes
- Architected and developed invoice/payment applications and fundraising web applications while adhering to the best practices
- Built a number of React-based front-end projects with React trending technologies such as React hooks, HOCs, lazy loading, and so on

2/06 – 3/08 **Global Design Services**

Principal Engineer

- Designed, developed and deployed Jabil's Design and Development Life Cycle process known involving Stage-Gate risk management, AQP/NPI collaborations and integration of management utility in Windchill PDM for all design divisions
- Responsible for ISO compliance of Global Design Quality System for (6) Global design sites in Asia, US and Europe (includes oversight of development, maintenance and continuous improvement)
- Lead Auditor for St. Petersburg Design site involved in audit planning and responsible for leading internal auditing teams in conducting audits to plan
- Lead Engineer for all Supplier and Quality Assurance functions for new product development for medical and consumer electronic markets
- Lead and facilitate efforts in DFM/DFX, DFMEA, Design for Safety, Maintainability and Quality
- Responsible for development and implementation of project Quality Plans and Validation Test plans for medical and consumer electronics

- █ Interface directly with customers on all quality matters, including ROHS, WEEE, Defects, Design Change, Product Validation and Compliance concerns
- █ Lead Supplier Quality initiatives for “key” and critical components with Supply Chain Management and review/approve supplier performance data

8/09 – 2/11 **ITT, Intelligence & Information Warfare**, Columbia, MD

Senior Quality Engineer

- █ Perform all required duties of a Senior Quality Engineer which includes sole responsibility and authority for the development of organization’s Quality System architecture and Project Quality Assurance deliverables to customer requirements
- █ Develop, deploy and manage Quality Systems and application for Inspection, Supplier Performance, Product Defects, MRB and Corrective Actions.
- █ Support all project and supplier QA activities including source inspection and supplier development initiatives
- █ TS-SCI clearance with polygraph

3/08 – 7/09 **ATK Inc., Tactical Propulsion and Controls**, Elkton, MD (AS-9100)

Senior Quality Engineer (Mission Assurance)

- █ Manage Quality Assurance requirements and compliance for Thrust Vector Controller and Attitude Control Motor for the NASA Ares I and Orbital Sciences Minotaur projects for electronic propulsion and control systems
- █ Responsible for electronics, software and Quality compliance to NASA, Orbital Systems and Lockheed Martin requirements.
- █ Manage subcontractor Quality Assurance for “key” components (Battery, Thrust Vector Controller and Actuator Systems)

12/97 – 2/06 **NACOM Corporation (Yazaki)**, Griffin, GA (QS-9000, TS-16949, ISO-14001)

Senior Quality Engineer, Advance Quality Engineering Group

- █ Joined NACOM as an EMD/Toyota Customer Quality Engineer II later promoted to Senior Quality Engineer
- █ 6 years Management responsibilities of APQP, NPI, PPAP, Reliability Test and Dimensional Groups (5 direct and 8 indirect subordinates)
- █ Responsible for system improvements, capital budget, metrics tracking and performance evaluations
- █ Working knowledge of 6S, SPC, Kaizen, Kanban, Toyota Production Systems, Continuous Improvement, and Lean Manufacturing principles
- █ Developed Layered Process Audit system to manage audits/calculate conformance results concurrently for five manufacturing departments
- █ Key APQP team member for design/process changes and product launch
- █ Responsible for all internal and external Quality compliance and documentation for Toyota, Mitsubishi, Nissan, SIA, Ford, Chrysler, GM
- █ Successfully led Product Launch Policy Management Team in redefining and streamlining launch methodologies and systems in the areas of risk analysis, design change management, product cost monitoring and on-time product delivery
- █ Solely developed and launched the company Product Life Cycle Work-Flow System for processing and managing Engineering Changes, Design Records, Feasibility, Quotes, PPAP, Process Change, and Engineering Trial Metrics for 30 concurrent users within a single operating application

3/95 - 12/97 **Coherent Research Inc**, East Syracuse, NY (ISO-9001)

Quality Specialist

- █ Responsible for project production oversight as well as design of processes, operations and procedures for vector map conversion.
- █ Made numerous enhancements to production operations and, designed and developed the manufacturing quality system and materials flow structure in alignment with ISO 9001
- █ Wrote the company Quality Manual and operating manuals and was promoted to Quality Specialist

- Solely developed and administrated a semi-automated quality system database called SmartMaps Quality System enabling the ISO 9001 management of thousands of process-tracking and quality documents for multiple projects
- Managed and performed all quality activities including process control, capability analysis, documentation control, inspection planning and related product quality assurance activities

11/87 – 2/95

General Electric Aerospace Corp., Utica, NY
Quality Assurance Technician

Opto Generic Devices Inc., Van Hornesville, NY
Electrical Design Engineering Supervisor