**Summary**

* Extensive professional experience in Software Engineering, System Design, Firmware Test
* Varied project background in Commercial, Military and Medical product development
* Motivated, Continuous Learner, with a Positive Can-Do Attitude

**Programming Languages Hardware/Operating Systems**

Java, Perl, C, Ada, JavaScript Unix - Solaris, PC – Windows, Cygwin

Linux - Redhat, CentOS,

QNX(RTOS)

**Standards/Technologies/Applications**

Scrum, CMMI, VxWorks, Tcpdump, Wireshark, TI Code Composer, JTAG, RS-232, W3C XML, Eclipse, Tomcat, SSL, SQLServer, PostgreSQL, ClearCase, Microsoft Office, Jira, Quality Center

**Experience**

**First Consulting Inc. - ( Ortho Clinical Diagnostics** ) **2010 – 2016, 2018 - Present**

**Senior Embedded Software Test Engineer – ORTHO *Optix*, VITROS Integrated Analyzers**

Responsible for testing of embedded subsystem features including DSP APIs, Motion Controller refactoring, servo and stepper motor characterization from both hardware and software perspectives.

* Develop customized test strategies and frameworks to precisely expose product defects and system vulnerabilities.
* Create comprehensive test plans, procedures, and reports, backed by complex data extraction, analysis and interpretation.
* Utilize specialized test equipment, protocol analyzers and support software to improve the testing.

**Triumph Aerospace Integrated Systems** – Rochester, New York **2017**

**Embedded Software Test Engineer –** Performed DO-178B low level software testing of flight control actuation subsystems.

* Designed detailed testing of messaging protocols such as CAN, I2C, SPI, RS-232
* Comfortable in low and high-power lab environments
* Successfully achieved aggressive customer delivery milestones as part of a small high commitment team

**Eastman Kodak Company** - Rochester, New York  **2001 - 2010**

**Senior Software Engineer - Digital Cinema Operating System**

Performed software design, development, test and deployment of reliable and durable, Java solutions for a global theater management system. This included:

* A complex, distributed asset synchronization and content library capability.
* A Java-RMI enabled client/server Security Manager Interface.
* Socket level API interfaces to 3 feature grade digital projectors using Java NIO.

**Eastman Kodak Company** – Rochester, New York **1995 - 2001**

**Senior Software Test Engineer – 2000e Optical Storage Library**

Led software test teams in support of large, embedded firmware development projects. Authored detailed and comprehensive project test plans, test procedures, and schedules. Championed division process improvement initiatives and mentored team mates on creation and fulfillment of career goals, project assimilation, and training.

* Created several API level test frameworks enabling automated testing of embedded firmware.
* Created comprehensive hardware/software product requirement traceability matrices
* Evangelized and self-initiated team instruction in use of Perl as a powerful complement to product software.

**Lockheed Martin Corporation** - Syracuse, New York **1993 – 1995**

**Software Engineer -** Responsible for technical direction of a four person software development team for the BSY-2 Weapons On-Board Trainer subsystem. Effort resulted in on time, within budget, delivery of successfully designed, integrated and tested combat system Ada software.

* Team successfully achieved project Acceptance Test milestones.
* Created well-regarded and detailed scheduling, planning and cost estimations.
* Prepared and presented task progress and status data for critical review by Navy customer representatives.

**ENSCO Inc.** - Springfield, Virginia **1989 – 1993**

**Senior Programmer/Analyst – Onsite at Lockheed Martin, Harris Corporation**

Responsible for software testing for various Sonar and Radar system programs. Duties included test input data generation, formal test documentation, algorithm modeling, and data analysis in support of various CSCI subsystems such as BSY-2 Real Time Environmental Support, Cape Canaveral Test Operations Control Center.

**Vitro Corporation Inc.** – Silver Spring, Maryland **1986 - 1989**

**Systems Engineer-** Performed system engineering for the Mk 74 Missile Fire Control System.

Tasks included requirements definition, detection and resolution of design logic errors.

* Investigated and authored several successful system enhancement proposals
* Performed system modeling, testing and data analysis

**Education -** Bachelor of Engineering - Electrical Engineering, Manhattan College (1985)

**Security Clearance -** (DISCO) Secret, (Last Active 1995)