
PROFESSIONAL EXPERIENCES

Software Engineer – BAE Systems Inc, – Wayne, NJ

May 2019 – Present

Data Registration Software

- Creating system level automated tests and regression unit tests
- Reviewing and managing pull requests for code repositories
- Creating a Jenkins environment and hosting it through a Docker container that is increasing test stand utilization by 100%
- Acting as subject matter expert and supporting functional integration for three different teams both locally and remotely

Software Engineer/ELDP – BAE Systems Inc, – Endicott, NY

June 2016 – May 2019

777X Cabin Experience Network

- Developed behavioral-driven python test scripts for requirement-based test that saved over 50% of test development time
- Performed software vulnerability analysis using the STRIDE model that identified and addressed over 500 threats
- Worked with Jenkins server for continuous integration and regression test setup that saved over 50% of test rework and regression test time
- Received two companywide awards for exceeding customer expectation and innovative software development practices

Hybrid Drive Bus/NextGen Energy Storage System

- Participated in short term scrum and backlog planning for hybrid bus software releases
- Created processor specific kernel functions for PowerPC microprocessor series
- Supported software releases for three customers and created custom software mods with regards to their needs
- Performed and developed regression tests for software bundles

Airborne Battery Management System R&D

- Created a multi-million business proposal for Lithium-ion battery management system for aircraft use
- Performed a product reliability analysis and a failure mode and effect analysis for the system
- Created a demo battery management system prototype with test interface and test procedures

Project Freedom Trainer Flight Control Computer

- Created software tools for test stand that translates hardware memory address to software variable
- Modified a python-based tool that allows testers to create C based test code through excel spreadsheet that resulted in a schedule saving of 30%
- Provided technical support on program specific software tools for remote testers
- Worked with RTOS board supporting package creation and mission critical software design

EDUCATION

M.Eng., Systems Engineering, - Cornell University

May 2019

M.S., Electrical and Computer Engineering - State University of New York at Binghamton

May 2016

B.S., Computer Engineering - State University of New York at Binghamton

May 2015

SKILLS & CERTIFICATES

- Lean Six Sigma Green Belt (Certified by Cornell University)
- Machine Learning (Certified by Coursera)
- Proficiency in software development tools – C/C++, Python, Matlab, Greenhills, Linux, Git, Jenkins, Docker
- Proficiency in hardware development tools - VHDL, Verilog, Xilinx design suite, Synopsys

ADDITIONAL ACTIVITIES

Volunteer Mentor Coach - America Needs You – Jersey City, NJ

Aug 2019 – Present

- Served as a positive career role-model by supporting mentees with internship hunting
- Set smart goals with mentee and tracking progress through weekly check-ins

Engineering Leadership Development Program Graduate - BAE Systems, Inc.

June 2016 – May 2019