

Software engineer with 3+ years of experience in embedded systems software design, integration, verification, automation pipeline development, and product life cycle management

## PROFESSIONAL EXPERIENCES

### BAE SYSTEMS, WAYNE, NJ

Software Engineer/Product Owner – Navigation and Data Registration

May 2019 – Current

- Combining multiple legacy software code bases into a single product line and supporting three separate projects
- Creating system level automated tests and regression unit tests which speeds up the product roll out time for legacy software integration

### BAE SYSTEMS, ENDICOTT, NY

Software Verification Engineer – 777X Cabin Experience Network

June 2018 – May 2019

- 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

Software/System Engineer – Hybrid Drive Bus/NextGen Energy Storage System

June 2017 – May 2018

- 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

Software Engineer – Research Project – Airborne Battery Management System

Sept 2017 – Dec 2017

- Created a business proposal for Lithium-ion battery management system for aircraft use
- Created a demo battery management system prototype with test interface

Software Engineer – Project Freedom Trainer FCC

June 2016 – May 2017

- 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

## TECHNICAL SKILLS

- Software Development– C/C++, Python, Matlab, Bash script, Git, RTOS, Docker, Microservice Architecture
- Hardware Development - FPGA design, VHDL, Verilog, Xilinx design suite, Synopsis
- Others – Lean Six Sigma Green Belt, Penetration Testing, Risk and Reliability Analysis, SysML/UML, Continuous Integration, Machine Learning, Wireshark, Cryptanalysis

## EDUCATION

CORNELL UNIVERSITY, ITHACA, NY

May 2019

Master of Engineering in Systems Engineering

GPA 3.84/4

With emphasis in Project Development and Management

BINGHAMTON UNIVERSITY (SUNY), BINGHAMTON, NY

May 2016

Master of Science in Electrical and Computer Engineering,

GPA 3.56/4

With emphasis in Information Assurance

Bachelor of Science in Computer Engineering,

May 2015

With emphasis in Digital System Design

GPA 3.34/4

## ADDITIONAL EXPERIENCES

- BAE Engineering Leadership Development Program Graduate, June 2016 – May 2019
- Website development, HTML/CSS