Email: zedyang11@gmail.com   Website: yzy2.github.io

Zed Yang

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

PROFESSIONAL EXPERIENCE

BAE SYSTEMS, WAYNE, NJ

Software Engineer/Product Owner – Navigation and Data Registeration   May 2019 – Current
- Creating system level automated test to verify software model against Matlab simulation
- Combining multiple legacy software code bases into a single product line with automated unit and system tests
- Interfacing with internal project groups as the SME of the navigation product line to help with integration and developing new use cases for future reuse

BAE SYSTEMS, ENDICOTT, NY

Software Verification Engineer – 777X Cabin Experience Network   June 2018 – May 2019
- Performed software vulnerability modeling using Microsoft threat modelling tool
- Developed a threat analysis and requirements document for the customer
- Developed behavioral-driven python test script for requirement-based test
- Worked with Jenkins server for continuous integration and regression test setup
- Won two chairman's 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 for hybrid bus software releases
- Supported multiple software releases
- Performed and developed regression test for software bundles
- Developed new functionalities and performed testing on target bus

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 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
- Provided technical support on program specific software tools for remote testers
- Performed DAL-A software review

TECHNICAL SKILLS

- Software Development– C/C++, Python, Jenkins, Machine Learning, Matlab, Bash script, Git
- Hardware Development - FPGA design, VHDL, Verilog, Xlinx design suite, Synopsis
- Others – Lean Six Sigma Green belt, Penetration Testing, Risk Analysis, Reliability Test Design, SysML

EDUCATION

CORNELL UNIVERSITY, ITHACA, NY

Master of Engineering in Systems Engineering   May 2019
    With emphasis in Project Development and Management   GPA 3.84/4

BINGHAMTON UNIVERSITY (SUNY), BINGHAMTON, NY

Master of Science in Electrical and Computer Engineering,   May 2016
    With emphasis in Information Assurance   GPA 3.56/4
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
- Web development, HTML/CSS
- Requirements writer and critic