

Yuan (Zed) Yang

CONTACT ME

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EDUCATION

Master of Eng. in Systems Engineering

Cornell University,
Ithaca NY, 2019

Master of Science in Electrical and Computer Engineering

SUNY Binghamton,
Binghamton NY, 2016

Bachelor of Science in Computer Engineering

SUNY Binghamton,
Binghamton NY, 2015

SKILLS

Languages:

C/C++, Python, Java, VHDL, Verilog

Tools and Frameworks:

Jenkins, Docker, SpringBoot,
VxWorks, Yocto, RestAPI, Kali Linux,
SysML/UML, TensorFlow, Protobuf,
Behave BDD, Network Protocols

Certificates:

Professional Scrum Master
by Scrum.org

Machine Learning
by Stanford University

Lean Six Sigma – Green Belt
by Cornell University

Probability – Science of Uncertainty
by MIT

Engineering Leadership Development
by BAE Systems Inc,

PROFESSIONAL PROFILE

I'm a **C++ Engineer** with **5+ years** of experience working with developing **Object-Oriented** code for **Service Oriented Architecture** systems and creating CI/CD environment for **behavior driven development**. My current pursuit is integrating **Machine Learning** capability into a **message-based edge device system** via DPU (FPGA) and/or **TensorFlow** lite.

WORK EXPERIENCE

Software Specialist (L3)

L3Harris Technologies | Clifton, NJ | March 2020 – Present

Acting as a software specialist on multiple projects. Owning, developing and maintaining multiple service-oriented applications.

Project - Cognitive ID R&D

- Developed ML assistance as an extension library to existing code base and conducted a successful demo to secure additional funding for the next 2 years
- Conducted statistical analysis and created a Bayesian inference algorithm to combine ML classification and legacy classification systems
- Created DevOps based workflow including bitbucket, Jira, Jenkins and Docker
- Performed network based API call traffic analysis and optimization

Project - MARS Radar System

- Supported issue burndown to meet tight delivery deadline during staff shortage and gained customer approval for addition upgrade contracts
- Developed C++ based multithreading services on VxWorks Kernel
- Implemented message-based applications and designed service APIs

Software Engineer II (L2)

BAE Systems Inc, | Wayne, NJ | May 2019 – March 2020

Took ownership of integrating a software application and created DevOps pipeline for the software dev and release process.

Project - Data Registration Software

- Led new feature implementation effort
- Conducted reviews and managed pull requests for code repositories
- Acted as subject matter expert and supported functional integration for three different teams both locally and remotely

Software Engineer II / ELDP (L2)

BAE Systems Inc, | Endicott, NY | May 2016 – May 2019

Participated in the Engineering Leadership Development Program and rotated between four software teams working proposal, design, integration and test.

Project – Avionic NAS and Switch System

- Implemented common network protocols, such as multicast and spanning tree on a custom switch and developed automated test script for them
- Created tests to simulate network traffic for deny of service scenarios
- Created network security analysis based on the STRIDE model and implemented mitigation plans
- Developed Network based behavioral-driven python test scripts for requirement-based test that saved over 50% of test development time