Christina Paolicelli

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EDUCATION

Johns Hopkins University
MS in Computer and Electrical Engineering
Grad. Dec. 2020

Rensselaer Polytechnic Institute
BS in Electrical Engineering
Grad. May 2017

SKILLS

Languages:
C
C++
Python
MATLAB

Tools:
Git, Jenkins, Jira,
Linux, LabVIEW

COURSEWORK

Intro to Machine Learning
Image Engineering
Software Dev for Real-Time Systems
Image Compression
Detection & Estimation Theory
Internetworking of Things

EXPERIENCE

BAE Systems Jun 2017 – Present
Senior Software Engineer Nashua, NH & Endicott, NY

- Designed, developed, and tested software in C++ for embedded Electronics Warfare applications.
- Developed automated testing infrastructure using Python and VBA.
- Wrote white paper reverse engineering sensor systems signal acquisition process.
- Designed and developed proof of concept motor control and communications software for an embedded platform.
- Coordinated configuration of LabVIEW test fixture.
- Developed software in C for custom network switch, including interfacing with Linux network stack.

Boeing May 2016 – Aug 2016
Engineering Intern Oklahoma City, OK

- Member of systems integration team for avionics modernization.
- Supported requirements management, coordinated collection of test results, and developed software patches.

PROJECTS

Master's Thesis
Deep Learning Framework for Character Recognition in Low Quality License Plate Images
Developed a deep learning framework to analyze the performance of character recognition on license plate images as quality of the images degrades.

Optical Flow based Object Avoidance
Used OpenCV to develop an autonomous robotic object avoidance using optical flow to determine the optimal path.

Optimized multi-robot disaster response
Developed system for optimizing multi-robot response in unknown environments. Uses generalized modeling in MATLAB to produce continually improved results.