

Christina Paolicelli

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EDUCATION

Johns Hopkins University

MS in Computer and Electrical
Engineering
Grad. Fall 2020

Rensselaer Polytechnic Institute

BS in Electrical Engineering
Grad. May 2017

SKILLS

Languages:

C
C++
Python
VBA
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

SW Engineer II

Jun 2017 – Present

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

Engineering Intern

May 2016 – Aug 2016

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.