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

Tools:
Git, Linux

EXPERIENCE

Rain Industries   Jun 2021 - Present
Senior Software Engineer   Almeda, CA

- Lead software design and implementation for Fire Mapping. A system that identifies, locates, and suppresses wildfires from an autonomous helicopter.
- Stood up sensor test platform drone, coordinated test efforts, and wrote data analysis tooling.
- Operations crew member for autonomous helicopter test flight campaigns.

BAE Systems   Jun 2017 – Jun 2021
Senior Software Engineer   Nashua, NH & Endicott, NY

- Designed, developed, and tested software for embedded Electronics Warfare applications.
- Developed automated testing infrastructure using Python and VBA.
- Reverse engineered sensor systems signal acquisition processes.
- Designed and developed proof of concept motor control and communications software.

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

- Supported requirements management, collection of test results, and developing software patches for avionics modernization.

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.