Christina Paolicelli

http://hriste.github.io
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EDUCATION

JOHNS HOPKINS UNIVERSITY
MS in Electrical and Computer Engineering
Expected Fall 2020

RENSSELAER POLYTECHNIC INSTITUTE
BS in Electrical Engineering
May 2017 | Troy, NY

LINKS

Github:// **Hriste**
LinkedIn:// **christina-paolicelli**

COURSEWORK

GRADUATE
Detection + Estimation Theory
Intro to Radar Systems
UAV Systems + Control
Image Compression + Video Processing

UNDERGRADUATE
Distributed Systems + Sensor Networks
Digital Signals Processing
Internetworking of Things
Microprocessor Systems
Embedded Control

SKILLS

PROGRAMMING
C
MATLAB
Python

ENGINEERING TOOLS
Git
DOORS
Linux
LaTeX

EXPERIENCE

BAE SYSTEMS | Engineer I
June 2017 – Present | Endicott, NY
Cabin Experience Network | Software Engineer

- Developed software in C for a network switch including custom spanning tree application and integration with Linux network stack
- Developed test scripts in Python for network capabilities including IEEE 802.1Q, QoS, Traffic Control and IGMP

PGK Control Actuation System | Systems + Software Engineer

- Systems and Software Engineer for proof of concept precision guided munitions control actuation system
- Coordinating configuration and setup of test fixture, including subcontracting of LabVIEW control system
- Designing and developing software in C for motor control and communication bus

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

OPTICAL FLOW BASED OBJECT AVOIDANCE Fall 2018
Used OpenCV to develop autonomous robotic object avoidance using optical flow to determine optimal path

OPTIMIZED MULTI-ROBOT DISASTER RESPONSE | Capstone
Spring 2017| Troy, NY
Developed system for optimizing multi-robot response in unknown environments. Uses generalized modeling in MATLAB to produce continually improved results. Patent Application + Publication submitted.

AD-HOC WIRELESS NETWORK DEVELOPMENT | IOT Project
Spring 2017| Troy, NY
Used BATMAN-adv to setup and evaluate performance of an ad-hoc network among raspberry pis

SIMULATED SWARM ROBOTIC EXPLORATION
Fall 2016| Troy, NY
Developed a MATLAB simulation of distributed robotic mapping of unknown environments with a focus on the occurrence and response to communication dead zones