

Samuel Darkow

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Technical Skills

Computer Applications: Git, TFS, Azure Devops, Fusion 360, Microsoft Office
Languages: Python, C++, Matlab/Simulink, Ladder Logic
Hardware: EPROM, Microprocessor, Oscilloscope, Through-hole Soldering

Work Experience

General Dynamics Electric Boat - Groton, CT

Embedded Software Engineer II • June 2020 - Present

- C++ development and peer review software for embedded systems
- Digital signal processing and beamforming
- Modeled systems using matlab and simulink
- Developed GUI using Matlab GUIDE
- Written white papers and completed trade studies for project support
- Maintained active security clearance
- Promoted industry standards

Software Engineer Internship • June 2019 - August 2019

- Automated testing of signals for a GUI
- Testing signals using Wireshark and Linux

University of Rhode Island

Physics II E&M Teaching Assistant • August 2018 - May 2019

- Lead group discussions
- Graded assignments

Education

University of Rhode Island, Kingston, RI

Bachelor of Science: Electrical Engineering • May 2020

Cumulative GPA: 3.65/4.00

Senior Design Capstone Project

Teknor Apex: Extruder Zone Heating and Cooling Control with PLC

- Temperature Control via PLC implementing PID, and P_Temp Integral control loops
- Implemented start up sequence for extruder
- Implemented alarms and communication with Ignition for data collection
- Organized weekly progress reports to be sent to technical director

Awards/Memberships

Technical Excellence • July 2021

Eagle Scout • February 2016

Tau Beta Pi National Engineering Honor Society • September 2018

IEEE Student Member • August 2018

Sailing Club • August 2017