Jeremiah Goddard

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Education

Oregon State University — Corvallis, OR
M.S. Robotics — Fall 2023–Present
B.S Electrical/Computer Engineering — Summer 2023

US Navy Nuclear Power Pipeline — Charleston, SC
Nuclear Electronics Technician, Reactor Operator — Spring 2017–Fall 2018

Skills

Technical Proficiencies : Reinforcement Learning, Simulation, Sim-to-Real, Computer Vision, Data Analysis, Motion Capture, Rapid Prototyping, 3D Printing

Libraries/Software : Pybullet, Pytorch, OpenCV, Pandas, Stable-Baselines3, ROS/ROS2, KiCad, Solidworks, Blender, PrusaSlicer

Programming Languages : C, C++, Python, MatLab, AVR Assembly

Projects

Soil Parameters Probe — Fall 2022 - Spring 2023

- Coordinated with a group of three to integrate into the system various sensors for a soil probe
- Developed a capacitance based soil moisture sensor by researching various methods of moisture detection and selecting components that allowed easy integration with the system

Racing Drone With Custom Controller — Spring 2022

- Designed a drone from commercially available parts to meet specific requirements such as speed, battery life, and payload capacity
- Researched and implemented radio frequency communication methods for use with transceivers used in tandem with a custom made remote

Work Experience

US Navy — Charleston, SC
Nuclear Electronics Technician — Spring 2017 –Winter 2019

- Safely operated an active nuclear reactor as a part of a team on over a dozen occasions
- Performed maintenance on analog, digital, and protective circuits on an active nuclear reactor
- Interpreted complex technical manuals, schematics, and procedures for both mechanical and electrical systems
- Delegated tasks, daily activities and collected, organized and filed paperwork/certifications for over 100+ employees.
- Gave detail oriented safety lectures to large and small groups of employees to prevent injury

Oregon State University — Corvallis, Or
Undergraduate Research Volunteer, Perception Arm Testbed — Winter 2023 - Spring 2023

- Analyzed electrical schematics and wiring diagrams for the robotic arm test-bed and made recommendations for the final design