

# Jeremiah Goddard

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## Education

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### Oregon State University

M.S. Robotics

B.S Electrical/Computer Engineering

Corvallis, OR

Fall 2023–Present

Summer 2023

### US Navy Nuclear Power Pipeline

Nuclear Electronics Technician, Reactor Operator

Charleston, SC

Spring 2017–Fall 2018

## Skills

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**Software/Libraries** : Pybullet, Pytorch, OpenCV, ROS/ROS2, KiCad

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

**Technical Proficiencies** : Computer Vision, Reinforcement Learning, Simulation, Sim-to-Real, Motion Capture, Data Analysis

## Projects

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### 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

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### US Navy

Nuclear Electronics Technician

Charleston, SC

Mar 2017 –Nov 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

Undergraduate Research Volunteer, Perception Arm Testbed

Corvallis, Or

Winter 2023 - Present

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