

Jeremiah Goddard

Email: goddarje@oregonstate.edu
Phone: (407) 285 - 1051

Education

Oregon State University

M.S. in Robotics

Corvallis, OR

Fall 2023–Present (Expected Spring 2025)

Oregon State University

B.S. in Electrical And Computer Engineering, minor in Computer Science
Senior Standing, 3.67 GPA

Corvallis, OR

Fall 2020–Present

US Navy Nuclear Power Pipeline

Nuclear Electronics Technician, Reactor Operator

Charleston, SC

Spring 2017–Fall 2018

Relevant Courses

Signals and Systems I/II, Power Electronics, Systems Dynamics and Control, Electromech Energy Conversion

Skills

Software : KiCad, NgSpice, MatLab, MS Office

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

Projects

DC Brushed Motor

Fall 2007

- Created a single winding “Push to start” motor from scrap parts such as button sized magnets, AAA batteries, and PVC pipe

SeaPerch Robot

Winter 2020

- Assembled using basic hand tools such as a drill and soldering of electrical components to create a short range underwater ROV

IR Receiver on FPGA

Fall 2021

- Designed an IR receiver using example waveforms and technical documentation on IR communication protocols that controlled a sprite on a VGA computer monitor
- Implemented in Quartus Prime and simulated project on ModelSim

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

Soil Parameters Probe

Fall 2022 - Present

- 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

Experience

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