

# Ian Spehar, EI

Ian.Spehar01@gmail.com | 541-231-4056 | Corvallis, OR | ianspehar99.github.io

## Education

---

### Oregon State University, Corvallis

M.S. in Mechanical Engineering, Robotics Minor

Grad Date: June 2026

B.S. in Mechanical Engineering, Spanish Minor

June 2024

### University of Salamanca, Salamanca, Spain

Study Abroad, Spanish Language and Culture Studies

Fall 2023

## Experience

---

### Automatic Rocket Tracker Team

January - July 2024

Team Lead

- Initiated and led the design and development of a fully functional automated antenna tracking system, designed to improve recovery procedures for the OSU High Altitude Rocket Team
- Engineered and implemented advanced Arduino control algorithm to achieve optimized tracking automation

### OSU Mars Rover Team

September 2024 - Present

Software Engineer

- Develop autonomous navigation algorithms for the rover, enabling obstacle detection, path planning, and real-time decision-making
- Integrate ROS-based programs to coordinate sensor data, decision-making processes, and hardware actuation

### Oregon State University IT

August 2021 - Present

IT Technician

- Resolve technical issues for 20+ customers weekly, ensuring efficient support for Macs and PCs
- Deliver exceptional customer service to faculty and students
- Train 10+ employees per term to support IT program development

## Projects

---

### RC Car Personal Project

- Designed and built an RC car from scratch, utilizing a Raspberry Pi for control and automation
- Designed and manufactured the car's chassis and steering mechanism, creating a custom solution for precise control and durability

## Skills

---

**Programming:** Python, ROS, C++, Linux, Matlab

**Engineering Software:** SolidWorks, COMSOL, EES, Excel

## Certifications and Achievements

---

### Engineering Intern, State of Oregon

Passed Fundamentals of Engineering Exam, Mechanical, September 2024

## Activities

---

**OSU Tau Beta Pi Chapter (Engineering Honors Society)**

May 2022 - Present