

Skills

- Computer Aided Design/ Manufacturing (CAD & CAE/ CAM) Solidworks, NX, Autodesk
- Programming Matlab, Python, C#, MySQL
- Electronics Design and Manufacturing Sensors, Power systems, Microcontrollers
- Server Management and Networking Docker, Kubernetes, Proxmox
- PCB Design Eagle, KiCAD
- CNC Mill, Lathe, 3D Printing, Waterjet, Laser Cutter
- Machining & Composites Manual Operation, Composite Layup & Post Processing, GD&T

Experience

Undergraduate Research Assistant, Oregon State University Radiation Center Aug. 2023 – Present
Design and manufacture control systems for ongoing research. Assist in construction of research hardware.

Junior Engineer, LATERAL.systems Jan. 2022 – Aug. 2024
Prototype and develop environmental sensing hardware to prove product viability. Use off-the-shelf hardware to quickly bring water and air sensing products to market.

Project Manager, Oregon State University OPEnS Lab Sep. 2020 – Jun. 2023
Led the Smart Rock and Lilypad Projects. Managed a team of undergraduates to develop novel sensing hardware to assist ongoing research.

Mechanical Lead, Oregon State University OPEnS Lab Sep. 2020 – Jun. 2023
Assisted on the Evaporimeter, Rain Savor, Weather Chimes and Isotopic Sampler projects. Rapidly design and prototype hardware to prevent development bottlenecks.

Supporting Experience

ESRA Team Captain, Oregon State University AIAA Sep. 2023 – Jul. 2024
Restarted the Experimental Sounding Rocketry Association Team and in 9 months delivered a N class, single stage rocket to New Mexico for competition. Capstone was the air brake system for the rocket.

USLA Payload Team, Oregon State University AIAA Sep. 2019 – May 2020
Design and manufacture the frame of the robotic payload for the 2020 competition. Assist the team in prototyping and manufacturing the payload and avionics systems.

Design Captain, Pigmice Robotics #2733 May 2018 – Jun. 2019
Oversee all design, CAD, CAM, CAE for the 2019 competition season.

CAD Lead, Pigmice Robotics #2733 Sep. 2016 – May 2018
Lead the design and modeling of the robot for the 2017 and 2018 competitions.

Achievements

FRC Turing Division Finalists, Huston, Texas 2019

Engineering Inspiration Award, Lake Oswego, Oregon 2018

Education

Bachelor of Science (B.S.) Mechanical Engineering, Oregon State University Sep. 2024

CADD Associate Program, Portland Community College Mar. 2019

Highschool Diploma, Cleveland High School Jun. 2019