

**Skills**

- Computer Aided Design/ Manufacturing (CAD & CAE/ CAM) Solidworks, NX, Fusion, Inventor, Onshape
- Programming Matlab, Python, C#, MySQL
- Electronics Design and Manufacturing Sensors, Power systems, Microcontrollers, SMT Assembly
- 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**

- Electronics Manufacturing Technician, Fiber Sensys Inc, Portland, OR* Nov. 2024 – Present  
Oversee product manufacturing and quality. Assist engineering in designing for manufacturing. Conduct diagnostics and repairs on damaged or defective product.
- Undergraduate Research Assistant, Oregon State University Radiation Center, Corvallis, OR* Aug. 2023 – Sep. 2024  
Design and manufacture control systems for ongoing research. Assist in construction of research hardware.
- Junior Engineer, LATERAL.systems, Portland, OR* 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, Corvallis, OR* 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, Corvallis, OR* Sep. 2020 – Jun. 2023  
Assisted on the Evaporometer, 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.
- USLI 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.

**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
- High School Diploma, Cleveland High School Jun. 2019