# Colin Hale-Brown

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## 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 engineereing in designing for manufacturig. 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