

Camden Galen

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EDUCATION

Oregon State University

2022 – Jun 2026

B.S. Mechanical Engineering • Product Design & Manufacturing

GPA: 3.65

*Senior Capstone, **Autonomous Low-Speed EV Platform Development***

Winter 2026 – Present

Developing autonomous driving system for an open-source modular low-speed 4-wheel steer electric vehicle. Installing chassis and integrating sensors/controllers for autonomous operation. Implementing control code for acceleration, braking, steering, and emergency braking. Working with a large multidisciplinary team to accomplish this project before graduation

EXPERIENCE

*TTM Technologies, **Mechanical Engineering Intern***

Summer 2025

Shadowed process engineers in both mechanical and chemical processes of printed circuit board manufacturing. Conducted a design of experiments to refine new conductive paste manufacturing process parameters. Qualified a UV-sensitive film to be processed with new machinery vs the outdated single-point-failure process. Qualified an optical router for production use.

*Oregon Sea Grant, **Undergraduate Research Assistant***

Sep 2023 – Jun 2025

Designed, prototyped and field-tested a device that attaches to community caches to detect major earthquakes, while also ensuring timely access to the supplies within. Designed and produced a circuit board with custom C++ code to detect major seismic activity and unlock a key box/trigger LED beacon. Designed keybox door/latch assembly in Inventor; integrated solenoid-actuated locking mechanism.

*Oregon Manufacturing Innovation Center R&D, **Practicum Student***

Summer 2023

Subtractive manufacturing constriction. Full-time student at PCC + intern, where I got my **Pre-trades Advanced Manufacturing Certification, OSHA 30, and forklift certification**. Created a custom pair of steel tongue and groove pliers where I designed a mechanism, 3D modeled, toolpathed, CNC milled, and did all necessary post-processing to assemble the parts.

*Oregon State University, **liNVENT Youth As Inventors Mentor***

May 2023 - Jun 2023

Mentored high school students in the Lincoln County School District to assist/support them in solving a community issue of their choosing. Ran presentations, encouraged collaboration, and used my experience to assist their prototyping.

*Oregon State University, **Laboratory Technical Assistant***

Summer 2022

Designed and developed a hydrostatic pressure vessel for increased iLab's testing capabilities. Researched, 3D modeled, FEA simulation, prototyped, machined, tested, and developed an operational guide.

SKILLS

Microsoft Office: Word, Excel, Powerpoint • CAD/CAM: SolidWorks, Inventor, Mastercam, Fusion 360, Siemens NX, EAGLE • Manufacturing: CNC milling, PCBs, manual machining, welding, 3D printing, feeds/speeds, process documentation • Programming: C++, Python, MATLAB • Analysis: FEA (Ansys, SolidWorks), technical writing.

FE Exam: I am interested in taking the FE exam.