EAN CANFIELD

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Education

The University of Maine, Orono, ME — Expected May 2028

B.S. in Mechanical Engineering, Minor in Electrical Engineering | GPA: 3.51 | Dean's List: Spring 2025, Spring 2026

Skills

Certifications: Lean Six Sigma Green Belt (2026), Certified SolidWorks Associate (CSWA, 2025)

CAD and Design: SolidWorks, Fusion 360, Onshape, Design for Additive Manufacturing (DfAM), GD&T (coursework)

Fabrication: CNC laser cutting, CNC press brake, manual milling, 3D printing, aluminum extrusion framing

Process & Quality: Lean Six Sigma (DMAIC), setup reduction, 5S, time studies, SOP development, DOE (Minitab)

Programming: MATLAB, C, C++, Python (basic), Excel, PLC ladder logic

Experience

Process Improvement Intern, M.S. Ambrogio North America, Auburn, ME — Jun 2026 – Aug 2026

- Contributed to a 15% reduction in average press setup time across nine presses (30% on three high-speed presses) by standardizing setup sheets
- Standardized the setup sheet formats, then updated and validated 160+ sheets in Excel, and onboarded shift operators
- Developed 5S shadowboard layouts for future changeover time reduction and wrote basic PLC ladder logic

Mechanical Design & Manufacturing Assistant, Advanced Manufacturing Center, Orono, ME — Jan 2025 – Jun 2026

- Completed the preliminary SolidWorks design of gravity-fed bin feeders for a blueberry harvester, working on a four-person team led by a professional engineer
- Redesigned client parts for DfAM with self-supporting geometry, removing supports to cut print time by 10%
- Rapidly designed and fabricated sheet metal components for clients using CNC laser cutting and press brake technologies
- Led design and assembly of a custom laser welding enclosure using aluminum extrusion, built to OSHA and Laser Safety Officer requirements
- Met with clients to develop cost estimates, project timelines and to deliver progress updates

Projects

ASME UMaine Student Section | *Treasurer, Land Speed Car Team Member* — Jun 2025 – Present

- Rebuilt and standardized the Land Speed Car's assembly CAD, fixing modeling errors and setting team CAD conventions
- Teach underclassmen CAD and fabrication techniques
- Created Gantt charts to organize and plan goals and deadlines

Lean Six Sigma Green Belt Project | *3D Printed Tensile Properties DOE* — Spring 2026

- Designed a half-fraction factorial DOE in Minitab testing four print factors on 3D printed PETG tensile strength

VEX Robotics | *Volunteer Judge & Referee*, Former Team 1764 Captain — Aug 2020 – Present

- Designed 31 custom awards in SolidWorks, then laser cut, engraved, and delivered them for the 2026 Maine State Championship at a 70% savings; as captain, led a six-student team to the 2023-2024 Tournament Finalists Award

FPV Quadcopters (UAV) | *Personal Project* — Jul 2023 – Present

- Built multiple quadcopters, integrating flight controllers, ESCs, video transmission systems