

Owen Campbell

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EDUCATION

University of Massachusetts: Amherst

B.S. Mechanical Engineering | Dean's List

Anticipated Spring 2027

WORK EXPERIENCE

Applications Engineering Intern / BETE Fog Nozzle LLC

May 2026 – August 2026

- Collaborated with outside vendors and BETE engineers to build an automated quoting tool that converts Autodesk Inventor drawings into fully priced customer quotes, cutting quote time from 2–3 weeks to under 1 business day for 80% of quotes and reducing manual handling on large projects
- Designed and manufactured ergonomic handling tools for machine shop and foundry employees working with large injection-mold shells, working directly with machinists to ensure the practicality of each design

ENGINEERING ACTIVITIES

Project Director / Minutemen Racing (UMass Formula SAE)

May 2025 – Present

- Lead 45+ members across multiple disciplines and majors through the design and manufacturing of a Formula-style race car brought to the team's first collegiate competition, the 2026 Pittsburgh Shootout
- Run design reviews to verify FSAE rule compliance and manufacturability, train new members in design and manufacturing fundamentals, and manage yearly recruiting and onboarding
- Secure team resources by presenting to department heads and prospective sponsors, building relationships that fund and sustain the program while maintaining a constructive work environment to build future industry and academic professionals

Aerodynamics Subteam / Minutemen Racing (UMass Formula SAE)

September 2023 – May 2025

- Advanced from general member to subteam lead, directing 6 engineers in the research, design, and manufacturing of aerodynamic components for an open-wheel race car
- Manufactured the car's fiberglass rear wing and led design of the radiator mounting system, building working knowledge of CAD, FEA, and CFD
- Developed experience collaborating on complex, self-motivated engineering projects

SKILLS

Design & Analysis: SolidWorks, Autodesk Inventor, GD&T, DFMA, FEA, CFD, Ansys, MATLAB

Manufacturing: Manual machining, CNC machining, fiberglass fabrication, 3D printing & additive manufacturing, laser engraving, injection molding machines

Other Tools: Microsoft Excel, Adobe Suite

RELEVANT COURSEWORK

Design of Mechanical Components & Assemblies, Manufacturing Processes, Strength of Materials, Heat Transfer, Fluid Mechanics, Thermodynamics, System Dynamics, Strength of Materials

HOBBIES

Hiking, Downhill & Backcountry Skiing, Cycling, Motorsports, Running