

Owen Campbell

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EDUCATION

University of Massachusetts: Amherst

Bachelor of Science - Mechanical Engineering

Anticipated Spring 2027

Dean's List

Fall 2025

EXPERIENCE

Project Director / Minutemen Racing (UMass Formula SAE)

May 2025 - Present

- Lead an engineering team consisting of 55+ members across several disciplines in the design and manufacturing of a high-performance Formula-style race car for collegiate competition
- Collaborate and communicate with department heads and potential sponsors to secure funding and foster a safe, inspiring, and constructive work environment
- Present to general members weekly on team successes, opportunities, and areas for improvement

Aerodynamics Subteam Lead / Minutemen Racing (UMass Formula SAE)

January 2025 - May 2025

- Managed a group of 6 engineers focused on researching, designing, and manufacturing aerodynamic components of an open-wheel racing vehicle
- Led the development of mechanical assemblies and components, utilizing advanced manufacturing techniques in collaboration with the UMass Amherst ADDFab Lab

Aerodynamics Subteam Member / Minutemen Racing (UMass Formula SAE)

September 2023 - January 2025

- Utilized CFD and FEA techniques to optimize downforce and reduce drag while considering design for manufacturing
- Manufactured the rear wing of an FSAE car utilizing fiberglass molding techniques
- Accumulated hands-on engineering experience and received machine shop training

Store Guide (Part-time, 10-16 Hours Weekly) / Eastern Mountain Sports

May 2025 - Present

- Offered insight on various outdoor gear and products, utilizing both the experience of product design and outdoor adventures to provide product recommendations to customers
- Served as a friendly and professional store representative, assisting with customer service and outfitting customers with suitable equipment

PROJECTS

Printed Circuit Board (PCB) Holder, UMass Amherst, Manufacturing Processes

- Developed a PCB design that integrated additive manufacturing, machined parts, and sheet metal to meet customer specifications, while focusing on preventing manufacturing issues for later business units

Radiator Mounting System, UMass Amherst, Minutemen Racing (UMass Formula SAE)

- Oversaw and managed the development of a system to securely attach a radiator to the chassis of an FSAE car
- Taught SolidWorks, provided feedback on prototyped PLA 3D printed components, and approved final 3D printed nylon components

Rear Wing Mounting System, UMass Amherst, Minutemen Racing (UMass Formula SAE)

- Designed and fabricated a system to mount the rear wing of an FSAE car in place, accounting for large aerodynamic forces through hand calculations, CFD, and FEA

COURSES

System Dynamics, Heat Transfer, Design of Mechanical Components, Fluid Mechanics, Manufacturing Processes, Thermodynamics, Differential Equations, Strength of Materials, Dynamics, Statics

SKILLS

Software: SolidWorks, MATLAB, Ansys, Microsoft Office, Google Suite, Adobe Suite

Technical: CNC Training, Machine Shop Training, GD&T, DFM, TRAK Mill, Drill Press, 3D Printing, FEA, CFD