Zach Feldman

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EDUCATION

Cornell University College of Engineering, Ithaca, NY **August 2023 - May 2027 (Expected)**

- Bachelor of Science in Mechanical Engineering, College of Agriculture and Life Sciences Education Minor
- GPA: 3.24, Spring 2025
- **Relevant Coursework (*complete by Summer 2026):** Dynamics, Mechanical Design, Thermodynamics, Statics, System Dynamics*, Mechanics of Materials*, Heat Transfer*, Mechatronics*, Fluid Dynamics*

EXPERIENCE

Cornell University Electric Vehicles **October 2023 - Present**

Chassis Team Lead

- Collaborating with 75+ team members of varying disciplines to create hyper-efficient, autonomous electric cars, coming in 5th on the track and winning two Off-track awards and $4500 from Shell Eco-marathon Americas competition.
- Co-lead a team of 6, delegating tasks and overseeing workflow management to ensure all chassis projects are completed on schedule and seamlessly integrated with the broader team's deliverables.
- Oversee vacuum-infusion and wet layup composite manufacturing operations, producing high-quality carbon fiber structures that serve as the vehicle's body.
- Developed and manufactured 3D printed headlights and taillights as part of the chassis project for a new vehicle. Created 17 design iterations in CAD, ultimately selecting the final design through evaluation and feedback. Collaborated with the electrical team to ensure compatibility with their systems, achieving a lightweight and structurally stable design.
- Manage procurement of build materials and assembly equipment, optimizing inventory processes and maintaining supplier communication to streamline production workflows.

Revolutionary Cooling Systems **May 2025 - August 2025**

Mechanical Engineering Intern

- Responsible for designing components for the company's newest commercial beverage chilling product.
- Developed and manufactured dozens of new parts to support ongoing R&D projects using SolidWorks and various 3D printers.
- Spearheaded the company's 3D printing operations, expanding from 1 outdated printer to a 4-printer, full-capacity additive manufacturing lab; owned machine selection, scheduling, maintenance, and workflow optimization while advising the CEO on advanced printer procurement.
- Kept regular documentation, delivered several presentations, created multiple standard operating procedure documents, and authored a 50-page final report.

Cornell Athletics **September 2023 - Present**

Teacher, Athletic Assistant

- Co-teach beginning swim as of September 2025, helping students learn how to swim and gain the skills necessary to pass Cornell's required swim test.
- Work as a lifeguard for Cornell PE classes, swim team, and recreational swimmers, occasionally providing instruction and swimming advice.

Mohawk Day Camp **June 2024 - August 2024**

General Counselor

- Worked with a team of other counselors and directors to set up activities and oversee the fun/safety of children.
- Directly responsible for the care of a group of 15 kindergarten boys.

PROJECTS

Automatic Basketball Return System

- Engineered a modified basketball mini-hoop system that automatically returned balls to the user by integrating motors, 3D-printed flywheels, a laser-cut acrylic casing, and Arduino-controlled electronics.
- Collaborated with a 5-member engineering team to design, prototype, and manufacture the system, demonstrating results in a final presentation.

3D Modeling/Printing Personal Project

- Modeled and 3D-printed a 2+ foot tall 1/128 scale Falcon 9 rocket from scratch using Fusion 360 and an Independent Dual Extruder 3D printer.
- Iterated upon the design by running dozens of 3D printing tolerance and dual extrusion tests to ensure proper fitment between components.

Electronic Medical Device Personal Project

- Developed a prototype to motorize an endotracheal tube to be used at hospitals using an Arduino, servos, and coils so that a doctor could adjust the position of the tube easily while in someone's throat.
- Received direct feedback from EMTs and doctors to iterate and refine the design.

SKILLS

Technical: Autodesk Fusion 360, Autodesk Inventor, SolidWorks, 3D Printing Slicers, DFM/DFA, Engineering Drawings, Arduino, LaTeX, Google Workspace, Microsoft Office

Manufacturing: Composites (Carbon Fiber Wet Layup/Vacuum Infusion), 3D Printing, Laser Cutting, Manual Mill, Hand Tools