

Emily Felts

Evanston, IL

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EDUCATION

Third Year at Cornell University - Mechanical Engineering - 3.86 GPA

- **Cornell University Project Team - AutoBoat, Hardware Subteam - Invitation Only 2023-present**
 - Assists in the designing, manufacturing, and assembling of the autonomous boat for the annual RoboBoat competition.
 - Designed a custom power distribution PCB for the boat.
 - Designed buoy guard and deck layout that led to the boat ranking 5th in the world in 2025.
 - Designed the internal boat structure for Project Omega
- **Cornell Physics Department Undergraduate Teaching Assistant - PHYS 2213, Electricity and Magnetism - Invitation Only 2025**
 - Taught and mentored 20 physics electricity and magnetism students in a recitation section twice a week.
 - Engaged in a weekly physics teaching seminar on building an inclusive, effective classroom environment.
- **Cornell Physics Department Learning Strategies Center Tutor - 2025**
 - Tutored in the walk-in physics tutoring center for 6 hours per week for all introductory physics courses.
 - Helped on average 10 students per session.

Evanston Township High School (ETHS) - 2019-2023

- **Girl Scout Gold Award 2022**
- **Girl Scout Pinnacle Award 2022**
- High School National Honors Society 2022, 2023
- Spanish Seal of Biliteracy 2022
- Student of the Month for March 2022

SKILLS

Technical: AutoDesk Fusion 360 CAD, Altium Designer PCB, Ansys Static Structural, Rhino with Orca CAD

Interpersonal: Time management, adaptability, fluent in Spanish

Computer Programming: Python, MATLAB

Relevant Coursework: Digital Logic and Computer Organization, Statics and Mechanics of Solids, Dynamics, Engineering Processes for Environmental Sustainability, Engineering Applications of Operations Research, Oscillations Waves and Quantum Physics, Fluid Mechanics, Engineering Materials

EXTRACURRICULAR ACTIVITIES

Big Red Marching Band - 2023-present

- Elected 2024 Historian responsible for capturing and uploading pictures of public band events.
- Unanimously elected 2025 Head Historian responsible for managing 10 historians.
- Elected 2025 Special Events Coordinator responsible for organizing 10 annual events with 200 attendees.
- Appointed 2025 Rank Leader to lead 5 new members in marching.

Argonne National Laboratory Teen Advisory Council Member - Invitation Only 2021-2023

- Advised Argonne leadership to promote their programs to local teens. Coordinated Everyday STEM Teen Summit.
- First from high school to ever be selected.

Northwestern University Material Science Research Assistant - Invitation Only 2022-2023

- Assisted Dr. Nate Stern with material research.
- Learned about the importance of testing monolayers with lasers in material research.

Evanston Township High School (ETHS) Student Union (2021-2023), Leadership Team - Invitation Only 2022-2023

- Lead high school's volunteer student government to change school policy including free period products in bathrooms, and institute a graduation gown reusing program.

WORK EXPERIENCE

Chicago Cubs Logistics Associate - Summer 2024, 2025

- Managed supplies entering the ballpark and managed the inventory warehouses.
- Forklift certified for classes 1, 4 and 5

YMCA Summer Learning Teacher Assistant Summer 2023

- Taught 18 low-academic incoming first graders core academic skills in a classroom setting.