

KATHRYN AINLEY-ZOLL

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected Graduation: May 2028

B.S Mechanical Engineering

Relevant Course Work: Differential Equations, Intro to Python, Statics and Mechanics of Solids, Thermodynamics

PROFESSIONAL WORK EXPERIENCE

Cornell Dining: Goldie's Cafe, Ithaca, NY

October 2024-Present

Barista

- Provides hands-on customer service to students at Cornell University, working alongside a team on multiple tasks at once
- Prepares and makes La Colombe beverages with Cornell-specific meals, serving over thousands of students each week

Medtronic Women in IT Global Summit, Sacramento, CA

October 2023

Speaker

- Invited to speak at the Global Summit about a recent **publication** on perseverance and how women in STEM can succeed within the industry, highlighting common hardships
- Worked alongside a Medtronic engineer to ensure my presentation was exceptional and well-rounded

Shriners Children's Hospital, Sacramento, CA

June 2023-July 2023

Prosthetics and Orthotics Intern

- Worked alongside engineers in designing and manufacturing prosthetic and orthotic orders
- Shadowed workers as they prepped the patients for their prosthetics at appointments
- Designed and created a prosthetic leg completely by myself

EXTRACURRICULAR ACTIVITIES

Cornell Racing Formula SAE

November 2024-Present

Aerodynamics Design Engineer

- Collaborate with a 50+ member team to design, manufacture, and test an electric FSAE racecar.
- Research and implement **composite fabrication** of nose cone and panels to improve the car's efficiency, designed through **Autodesk Inventor**
- Coordinate team merchandise design, **sales**, and inventory management. Develop and manage the team's social media strategy and work with **recruitment** to create an open and collaborative environment within the team
- Conduct **CFD** testing through **Ansys** and physical testing. Utilizing **3D printing** and **carbon fiber layups** to manufacture parts for the car

Cornell University Varsity Cheerleading

Member

April 2024- Present

- Division one team that performs choreographed routines with precision and discipline, demonstrating teamwork, **leadership**, and communication skills to enhance school spirit and event success.

PUBLICATIONS

Portraits of Perseverance ® – The BIG BOOK of 200 Women in STEM

- Published a 484-page book showcasing a diverse group of women in STEM careers and their unique stories.
- Over three years of research and connecting with women globally, personally speaking to each about their hardships and portraying the perseverance of females in STEM fields.

AWARDS & CERTIFICATIONS

Girl Scouts Gold Award

March 2020-2024

- Created a variety of projects for my community, including designing original elevated dog beds for the SPCA to solve the common issue of food bowls spilling, and a publication to inspire young girls to go into STEM fields, selling hundreds of copies

US Presidential Volunteer Service Awards

March 2021-2024

- Awarded 3x for over 700 hours of volunteer work

Cornell Emerson Machine Shop

February 2025

- Certified on manual mill and lathes to machine parts for Cornell Racing

INTERESTS & SKILLS

Interests: Automotive and mechanical design, Formula One, mechatronics, theater, set design

Skills: Microsoft Office, Autodesk Inventor, Welding, Technical Design, Ansys CFD, CNC machining,

