

# Mallory Moore

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## EDUCATION

**Cornell University**, College of Engineering, Ithaca, NY

Expected May 2028

Bachelor of Science, Mechanical Engineering, Aerospace Engineering Minor, Business Minor for Engineers

GPA: 3.80

**Relevant Courses:** Statics and Mechanics of Solids, Physics Mechanics & Heat, Thermodynamics, Electromagnetism

## TECHNICAL EXPERIENCE

**Cornell Baja Racing**, *Drivetrain Member*

Ithaca, NY, November 2024-Present

- Collaborated with a 50+ member team to build and maintain an all-terrain vehicle, placing first overall in SAE's Collegiate Baja Design Series competition
- Designed and manufactured the propshaft bearing casing for the team's 2025 car to maintain placement of the propshaft responsible for four-wheel drive; fabricated on a Tormach CNC machine
- Currently responsible for design, manufacture and maintenance of the front gearbox casing for the team's 2026 car with goals to better house the front differential, ease assembly, and improve plunging cup interface

**Notre Dame High School Robotics**, *Co-Captain and Programming Lead* Belmont, CA, September 2021-June 2024

- Communicate with business side and adult mentors; organize competition attendance; collaborate on designing, building, and programming the robot based on the FIRST FTC robotic challenge
- Host elementary school aged Girl Scouts to earn their robotics badges; lead activities and lessons on the development of robots and the design process; encourage girls to compete in and learn about robotics

**Embry-Riddle Aerospace Engineering Program**, *Member*

Prescott, AZ, June 2023

- Designed and 3D-printed airfoils; designed and built gliders; stress-tested metals using liquid nitrogen and at room temperature; practiced technique using flight simulators
- Attended lectures on astrodynamics, propulsion, aerodynamics, CAD, and materials science

## LEADERSHIP EXPERIENCE

**Truckee-Donner Recreation & Park District**, *Lead Sailing Instructor, Lifeguard*

Truckee, CA, June 2021-Present

- Teach sailing camps for 3rd-9th graders; develop confident sailors from novices starting with terminology and expanding to racing on Laser-Picos
- Responsible for approximately 20 kids and 8 instructors a week; plan daily agendas, lead lessons, teach on sailboats, and supervise junior instructors
- Aid swimmers in safety and health issues; manage customer expectations; enforce rules; maintain pool and beach cleanliness

**Cornell Women's Club Water Polo**, *Co-Captain & Recruitment Chair*

Ithaca, NY, August 2024-Present

- Lead the team in games; maintain positive morale and facilitate strong communication between all teammates
- Advertise the team at Club Fest, by designing posters and reaching out to people on campus and social media; maintain a positive and supportive open line of communication with those interested in joining
- 2025 League Champions; selected for NY Division First League Team

**Society of Women Engineers**, *Girl Scout Committee Coordinator*

Ithaca, NY, September 2024-Present

- Lead a team to organize events for middle school-aged Girl Scouts to achieve new STEM badges; communicate with the troops, facilitate the event on the day of to ensure all girls leave having learned valuable information

**CU Empower Mentorship Program**, *Mentor*

Ithaca, NY, September 2025-Present

- Mentor freshmen in engineering transition to college life and academics

## CAMPUS INVOLVEMENT

**Women of Aeronautics and Astronautics**, Cornell University, *Member*

September 2024-Present

**Animal Advocacy at Cornell**, Cornell University, *Member*

September 2024-Present

**Kappa Delta Sorority**, Cornell University, *Member*

January 2025-Present

## SPECIALIZED SKILLS

**Programs:** SolidWorks (CAD), HSMWorks (CAM), Ansys (Finite Element Analysis), MATLAB, Python, LaTeX, Excel

**Technical Skills:** Manual Mill and Lathe, Tormach CNC, Power Tools