Madeline Nason

Corvallis OR, 97330 | (541) 908-9127 | mln63@cornell.edu | linkedin.com/in/madelinenason

EDUCATION AND HONORS

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science in Mechanical Engineering; 3.881 expected May 2026
Relevant Coursework: Introductory Fluid Mechanics, System Dynamics, Mechanics of Engineering Materials, Statics and Mechanics of Solids, Linear Algebra for Engineers, Physics III: Oscillations, Waves, and Quantum Physics, Ethical Issues in Engineering Practice, Introduction to Mechanical Design, Heat Transfer, Propulsion of Aircraft and Rockets
Current Coursework: Wind Power, Fundamentals of Electric Vehicles, Fluids and Heat Transfer Lab

WORK EXPERIENCE

Undergraduate Researcher, Marquette University Jun 2023 - Aug 2023
National Science Foundation Research Experience for Undergrads: Hardware, Embedded Software, and Analytics for Environmental Quality Monitoring

- Worked full time researching the effects of three unique toxicants on methane production in anaerobic digestion
- Gained over one hundred hours of lab experience preparing experiments, collecting data in lab three times a day
- Analyzed data using Excel, discussed findings in research paper, formally presented results in poster presentation

Server/Bartender, Taverna Banfi, The Statler Hotel, Cornell University May 2025 - present

- Wait tables and make drinks in a fast-paced environment, make connections with and serve customers

Student Cafe Worker, Temple of Zeus, Cornell University May 2025 - present

- Prepare food orders according to customer specifications, interact positively with customers at the register

Student Assistant, STEM Academy, Oregon State University Jun 2022

- Taught K-12 students at Making with Microcontrollers, Processing Camp, ActivityBots Camp, Coding Camp

Crew Member, NW Youth Corps, Wenatchee, WA Jun 2021 - Jul 2021

- Worked eight-hour days for four weeks to build and maintain trails and conserve the Washington wilderness
- Cooked, cleaned, and camped with eight other crew members; improved teamwork, work ethic, and adaptability

PROJECTS

Fluid Mechanical Dissection, Introduction to Fluid Mechanics Nov 2024 - Dec 2024

- Worked with three classmates to dissect a coffee maker, understand its parts and respective functions, and create a five minute video conveying how our machine worked in the context of engineering fluid mechanics

Load Cell Design, Mechanics of Engineering Materials Nov 2024 - Dec 2024

- Performed a finite element model analysis on a provided baseline geometry using Ansys; used MatLab to iterate from baseline design to an improved geometry and material that met all design requirements
- Created CAD model of new design and performed another FEM analysis; compared results to hand calculations

COMMUNITY INVOLVEMENT & LEADERSHIP

Division I Collegiate Athlete, Cornell University Jun 2022 - present

- Cross Country, Indoor Track and Field, Outdoor Track and Field, practice twenty hours per week

Member, Cornell Student Athletes for Sustainability Sep 2024 - present

- Work to reduce environmental footprint of Cornell Athletics; off-campus volunteering project team member

Chapter Co-Leader, Athlete Ally Mar 2025 - present

- Established chapter of Athlete Ally on Cornell's campus to provide an inclusive space for queer athletes and allies

SKILLS

Software & Tools: Autodesk Fusion, Ansys, Excel, Latex
Programming languages: Python, Java, MatLab
Machining: Lathe, Milling Machine