

Madeleine Vercher

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Education

Cornell University, College of Engineering, Ithaca, NY

Expected May 2027

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

GPA: 3.27, Spring 2025

Relevant Coursework: Fluid Mechanics, Statics and Mechanics of Solids, Python, Mechanical Design, System Dynamics, Mechanics of Engineering Materials, Organizational Behavior, Financial Accounting

Professional Experience

Teaching Fellow, *Cornell University*, Remote

January 2025 - Present

- Lead discussions and office hours for high school students in ENGRI 1165: Climate Change and You, The Engineer
- Facilitate weekly Zoom sessions, grade assignments, and provide academic support to help students gain college-level experience and credit

Autodesk Design and Make Ambassador, *Autodesk*, Remote

September 2024 - Present

- Promote Autodesk software and 3D printing on the university campus through monthly workshops, weekly Zoom sessions, and tabling events
- Create social media posts to advertise career opportunities and events in STEM

STEM Instructor, *Lavner Education*, Washington D.C.

May 2024 - August 2024

- Facilitated lessons in coding languages (Python, LUA), 3D printing, and robotics to classes of 6-14 year olds, communicating with parents on a daily basis on student performances
- Collaborated with the manager regarding scheduling and inventory needs, and documented incident reports with human resources

Ride Operator, *Busch Gardens*, Tampa, FL

April 2023 - July 2023

- Operated roller coaster rides, ensuring all safety regulations and protocols were followed
- Completed training and manual readings for 7 rides to be qualified to operate machinery

Leadership Experience

Vice President of Learning and Development, *Kappa Delta*, Ithaca, NY

May 2025 - Present

- Coordinate academic, leadership development, and new member programs for chapter members
- Manage chapter systems and bylaws to support accountability and growth

President, *Big Red Bears*, Ithaca, NY

August 2023 - Present

- Oversee Cornell's mascot operations, including volunteer coordination, scheduling, and campus/community event management
- Manage logistics for mascot's appearances, including wardrobe, safety/privacy protocols, and coordination with campus partners to ensure smooth events.

Skills

Technical Skills: CAD, Fusion, Product Development & Prototyping

Programming Skills: Python, LUA, MATLAB, Excel

Certifications: Autodesk Inventor (2021)

Language: Spanish (Advanced; Study Abroad in Madrid Summer 2025)