April Wang

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Expected May 2027**
Bachelors of Science, Mechanical Engineering, Dyson Business Minor for Engineers
GPA: 4.007

RELEVANT COURSES

Design After the Anthropocene, System Dynamics, Mechanics of Materials, Fluid Mechanics, Thermodynamics, Intro to Mechanical Design, Engineering Probability and Statistics

RELEVANT EXPERIENCE

CUSail — *Mechanical Sub-team* **Oct 2023 - Present**

- Design and manufacture an autonomous sailboat for an annual competition
  — won overall 1st place for the first time at the 2025 competition
- Design an electronics box that ensures waterproofing and modularity between all electronic components
  - Collaborate with the navigation subteam to meet their needs and balance any constraints
- Developed a removable keel and ballast and devised novel connections between the hull, keel, and ballast
- Used SolidWorks to design an Airmar sensor mount, 3D-printed the mount, and assembled it with the boat
- Attended the 2024 competition — gained experience in troubleshooting and making mechanical fixes

Organic Robotics Lab, Cornell University, Ithaca, NY — *Research Assistant* **Sep 2024 - Present (Summer 2025)**

- Learn how to use structural mechanics FEA, particularly meshing, material models, boundary conditions, contact and constraints, and dynamic analysis
- Develop FEA models using FEBio to conduct dynamic analysis of an impact on a hyperelastic material in order to compare the behavior of the material to that detected by sensors in a physical model

MAE 2250 - Intro to Mechanical Design, Cornell University, Ithaca, NY **Spring 2025**

- Collaborated with four other students to design and develop a novel product with mechanical functions that solved a problem faced by people living in small apartments
- Researched user needs through interviews, brainstormed potential solutions, then prototyped, tested, and iterated on our physical product before presenting it to the class
- Used CAD, laser-cutting, and hand tools to make physical prototypes

SKILLS

- **Manufacturing:** Composite manufacturing processes, 3D printing, laser cutting, CNC machining
- **Softwares:** SolidWorks (CAD), Fusion 360 (CAD), Microsoft Office, FEBio (FEA)
- **Programming Languages:** Python, MATLAB, Java, JavaScript

LEADERSHIP EXPERIENCE

Dancesport at Cornell — *Event Coordinator* **Jan 2024 - Present**

- Plan and organize campus-wide balls and socials of around 50 people, handling budget, funding, communications with vendors, and other logistics
- Negotiate coaching contracts

LetGo YourMind STEM Programs — *Lead Counselor* **July 2024**

- Taught 5-20 children how to build and code LEGO robots and directed 1-2 junior counselors each week
- Set up activities and challenges for the children to test and modify their robots