Megan Wu

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Expected December 2026**
Bachelor of Science, Mechanical Engineering, **GPA: 4.00**

Technical University of Denmark, Lyngby, Denmark **Expected Spring 2026**
Junior Semester Abroad, Bachelor's and Master's level hands-on engineering courses

Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong **Summer 2024**
Sophomore Semester Abroad, Bachelor's level Math and CS courses

Relevant Courses: Combustion Engines, Robust Mechanical Design, Robotics, Database Management, Object Oriented Programming, Digital Logic and Computer Organization, Circuits

ENGINEERING EXPERIENCE

Cornell Autonomous Sailboat, Cornell University, *Machine Shop Lead* **Sep 2024 - Present**

- 3D-modeling surfaces using SolidWorks and DFM or DFA techniques
- Designed and machining sturdier rudder improvements, helping team win 1st place at SailBot competition
- Created a fiberglass deck using a vacuum bag lay-up method
- Coordinate machine shop shifts with mechanical team members to ensure smooth production

Hybrid Body Lab, Cornell University, *Undergraduate Researcher* **Sep 2024 - Present**

- Built and open-sourced a machine using rapid prototyping techniques to wet spin biodegradable functional fibers
- Designing parts in Fusion 360 or Open SCAD and fabricating with SLA or FDM printers (GitHub)
- Helped host a workshop study where 10 fiber artists tested the machine and used feedback to iterate the design
- Second author on an Best Pictorial Honorable Mention Award for a DIS paper (DOI)
- Collaborated with a team of engineers and artists to create a miniature tattoo gun nail cover (project page)
- Researched and implemented 4D weaving techniques using sustainable hydrogel yarn over the summer

CB Fisk, Gloucester, MA, *Organ Building Intern* **Summer 2025**

- Worked with 30 artisans and engineers to build Opus 166, a mechanical French Romantic pipe organ
- Soldered and shaped lead pipe feet
- Created parts for Barker levers and CNC-milled wind ducts from AutoCAD drawings

INTERPERSONAL EXPERIENCE

Engineering Department, Cornell University, *Teaching Assistant and Peer Tutor* **Sep 2024 - Present**

- Individually leading discussion sections and office hours for Statics and Mechanics of Materials
- Tutoring students one-on-one and in groups for multivariable calculus, differential equations, and statics

North Campus Service Center, Cornell University, *Member* **Sep 2023 - May 2024**

- Sorted student mail and assisted with housing, locks, and package problems

SPECIALIZED SKILLS

Programs/Tools: SolidWorks, Fusion 360, Open SCAD, PreForm, Bambu Lab, MATLAB, Java, Python, SQL, GitHub, Mill, Lathe, Ansys
Languages: English (fluent); Mandarin (fluent); French (intermediate)