

Megan Wu

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Mechanical Engineering
Minor in Electrical and Computer Engineering
GPA: 4.00/4.00

Expected December 2026

Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong
Sophomore Semester Abroad, Math and CS courses

Summer 2024

Relevant Courses: Mechanical Design, Mechanics of Materials, Thermodynamics, Dynamics, Database Management, Object Oriented Programming, Digital Logic and Computer Organization, Circuits

PROFESSIONAL EXPERIENCE

Cornell Autonomous Sailboat, Cornell University, *Machine Shop Lead*

Sep 2024 - Present

- 3D-modeling surfaces using SolidWorks
- Designing sturdier rudder improvements using SolidWorks and FDM printers
- Machined aluminum parts for rudder
- Creating a fiberglass deck using a vacuum bag lay-up

RESEARCH EXPERIENCE

Hybrid Body Lab, Cornell University, *Undergraduate Researcher*

Sep 2024 - Present

- Building a machine using rapid prototyping techniques to wet spin biodegradable fibers
- 3D-modeling machine parts in Fusion 360 and printing using SLA or FDM
- Investigating 4D weaving techniques using hydrogel yarn
- Collaborated with a small team of engineers and artists to create a wearable tattoo gun
- Helped host a workshop for 10 expert fiber artists to introduce the wet spinning machine and e-textiles

SPECIALIZED SKILLS

Programs/Tools: SolidWorks, Fusion 360, PreForm, Bambu Lab, Java, Python, SQL, MATLAB, Mill, Lathe, Ansys, Open SCAD

Languages: English (fluent); Mandarin (fluent); French (intermediate)

INTERPERSONAL EXPERIENCE

Engineering Learning Initiatives, Cornell University, *Tutor*

Sep 2024 - Present

- Tutoring students one-on-one for multivariable calculus, differential equations, and statics

North Campus Service Center, Ithaca, NY, *Member*

Sep 2023 - May 2024

- Sorted student mail and assisted students with housing problems

Kung Fu Tea, Princeton, NJ, *Member*

Mar 2022 - Mar 2023

- Worked in a busy environment taking orders and making drinks