

# OLIVIA LEE

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## Education

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### Cornell University

College of Engineering: Mechanical Engineering | Graduation May 2027

Relevant Coursework: Statics, Thermodynamics, Mechanical Design, Fluid Mechanics, System Dynamics, and Mechanics of Materials, Differential Equations, Linear Algebra, Introduction to Python, and Physics 1 & 2.

## Experiences

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### STV Mechanical Engineering Intern

May 2025-August 2025

- Gained hands-on experience in plumbing and fire protection design by modeling piping systems on Revit and creating riser diagrams. Coordinated with architectural, structural, electrical, and HVAC to identify and resolve interferences using BIM 360.
- Reviewed construction and shop drawings to ensure consistency and compliance with code requirements. Performed pipe sizing calculations for domestic water, sanitary, and storm systems.
- Developed a LEED Plumbing Design Guide to support sustainable design practices and assist engineers in meeting LEED v4.1 requirements.

### Cornell Nexus Project Team Mechanical Subteam Member

September 2024-Present

- Collaborating with a team to design and build a solar powered robot that will filter microplastics while autonomously traversing beaches.
- Currently working on SolidWorks to redesign and rebuild the base station where the autonomous robot will be able to recharge with solar power and discard the microplastics. Researching ways the base station could be modular and able to travel to different beaches using different brackets and jointing techniques.
- Manufactured subassemblies using machining equipment such as the lathe, mill, miter and circular saw and various hand tools.

### Cornell Fitness Monitor

September 2024-Present

- Supervised the fitness center to ensure a safe and inclusive environment for all clients.
- Enforced policies and provided assistance with equipment and general inquiries.

### Cornell SPLASH Admin

April 2024-present

- Working closely with the logistics director to plan and delegate tasks for the upcoming Splash event.
- Efficiently recorded student attendance, supported student teachers by preparing materials and facilitating classroom activities, and coordinated lunch rush ensuring the orderly distribution of meals while maintaining a safe and clean environment.

## Extracurriculars

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American Society of Mechanical Engineers at Cornell, Cornell Splash Admin Member, Cornell Chinese Yo-Yo (Pro-Yos) Marketing Chair, Chinese Student Association and Alpha Chi Omega Formal Social Chair.

## Skills

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MATLAB, Revit, Bluebeam, SolidWorks, BIM 360, Fusion 360, Google Suite, Microsoft Suite, Machining-Metal Fabrication, SketchUp, OSHA10 Certified and Python.