

Ian Chen

[mc2839@cornell.edu](mailto:mc2839@cornell.edu) • [mchen200512@gmail.com](mailto:mchen200512@gmail.com) • 718-708-9533 • Queens, NY

**OBJECTIVE:** Mechanical engineering undergraduate seeking an mechanical engineer or robotics engineer opportunity.

EDUCATION

**Cornell University, College of Engineering, Ithaca, NY**

Expected June 2027

Major: ***Mechanical Engineering***

Relevant Coursework: Statics and Mechanics, Dynamics, Mechanical Design, System Dynamics, Fluid Mechanics

GPA: 3.0

## ENGINEERING EXPERIENCE

**CUSail** (Cornell University) • Mechanical Subteam

January 2025 - Present

- Worked on an interdisciplinary team to integrate mechanical and electrical components to build an autonomous sailboat for competition in the [Sailboat International Robotic Sailing Regatta \(SailBot\)](#). Tournament Champions for 2025 SailBot Competition in Worcester, MA.
  - Developing structure of sailboat with CAD using SolidWorks and participating in prototyping and fabrication using composite materials, laser cutting, and 3D printing.
  - Designed and prototyped the boat's hull and deck using composite materials and machining techniques.
  - Focusing on applying fluid mechanics principles to analyze sail aerodynamics to determine optimal geometry for improved speed, maneuverability, and stability.

**CU AutoDrone** (Cornell University) • *Mechanical Subteam*

February 2024 - October 2024

- Worked in an interdisciplinary team to design and build autonomous and controlled drones to compete in the [International Aerial Robotics Competition](#).
  - Utilized Onshape to develop CAD to visualize and design drone mechanical structures.
  - Coordinated with teammates to develop an end-effector, leading R&D and taking initiative with product development.

## **WORK EXPERIENCE**

**Alpha Taekwondo** (Queens, NY) • *Assistant Instructor* • 25 hours/week

July 2024 -August 2024

- Taught children ages 3-17 skills in taekwondo and martial arts.
  - Engaged youth, teaching confidence and discipline, while maintaining safety and order within the school.

## **EXTRACURRICULAR INVOLVEMENT**

**Assorted Aces** (Cornell University) • *Social Chair, Choreographer*

September 2024 - Present

- Lead of Social Committee focused on developing social events to bring together a team of 60+ members. Assigning responsibilities and
  - Member of open-style dance team, taught many choreographies to fellow team members.

## SKILLS AND INTERESTS

*Languages:* Proficient in Chinese, Beginner in Spanish | US Citizen

**Technical Skills:** CAD (Solidworks, Fusion 360, Onshape), Machine Certified, Prototyping, Laser Cutting