

Ian Chen

mc2839@cornell.edu • 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