

# Charlie Cohen

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## EDUCATION

**Cornell University, Ithaca, New York** Class of 2026

B.S. Mechanical Engineering | GPA: 4.22 | Dean's List: All Semesters

Tau Beta Pi (Engineering Honors Society, recognized for being in the top 1/8th of Cornell Engineering Junior class)

**Latin School of Chicago, Chicago, Illinois** Class of 2022

GPA: 4.0 | Erasmus Society (recognizes intellectual curiosity and love of learning, 2020 - 2022)

Cum Laude (Honor Society, 2021 - 2022) | Dr. Humphrey Cortes Award in Latin (2022) | AP Scholar with Distinction | FIRST Tech Challenge robotics 2-time state finals

## RELEVANT EXPERIENCE

**Brakes Lead — Cornell Baja Racing** October 2022-Present

- Collaborate with a team of over 50 dedicated students to design, manufacture, and race an off-road car against national and international collegiate teams; consistent top 3 finisher across last 5 years
- Designing and manufacturing custom calipers for the 2025 car while leading brakes subteam
- Responsible for design, analysis, manufacturing, and testing of frame fixtures and engine mount subframes on 2024 car
- Designed and manufactured all nonstructural tabs for the 2023 car

**Mechanical Engineering Intern — ITW, Commercial Construction NA, Glenview, IL** May-August 2024

- Worked on Customer Back Innovation (CBI) engineering team to develop new engineered solutions
- Developed a new product for CCNA's flatwork brand, PNA. Defined project requirements, designed product using CAD, ran structural analysis, led production of prototype, conducted tests to inform future design decisions
- Assisted with other ongoing engineering projects, providing FEA support for push-to-connect product
- Applied the proprietary ITW Business Model to all aspects of my work

**Vice President — Cornell Computer Reuse Association** September 2022-Present

- Lead refurbishment of decommissioned computers for donation to organizations in need
- Manage budget for club, develop strategic spending plan as 2023-2024 Treasurer

**Teaching Assistant, Statics and Mechanics of Solids — Cornell University** August-December 2023

- Led weekly discussion section for 24 students, held office hours for individualized support
- Managed course webpage, updated assignments and course information

**Mechanical Engineering Intern, Commercial Aviation — Intelsat, Chicago, IL** May-August 2023

- Supported engineering design development through structural analysis of inflight connectivity systems, authored reports for airline and FAA approval
- Led implementation of aircraft 3D scanning capability project, created 3D scanning internal instruction guide and led hands-on trainings for engineering team
- Assisted in transfer to new PLM software, updated models of standard fasteners and parts

## VOLUNTEER EXPERIENCE

**Service Hours Coordinator, Logistics Team Member, Tutor — Connecting Chicago** 2020-2021

- Coded an automated system to track, log & verify service hours for 200 tutors, raised \$5,000 for tutor supplies
- Tutored in math, science, and CS

**Volunteer — Aidan Shea Foundation** 2016-2022

- Design, print and sell 3D holiday ornaments for charitable organization in memory of 10 year old boy

RELEVANT COURSES	SKILLS	CERTIFICATIONS	PERSONAL QUALITIES
<ul style="list-style-type: none"><li>• Statics and Mechanics of Solids</li><li>• Dynamics</li><li>• Thermodynamics</li><li>• Fluid Mechanics</li><li>• System Dynamics</li><li>• Mechanics of Materials</li><li>• Electromagnetism</li><li>• Oscillations, Waves, &amp; Quantum Physics</li></ul>	<ul style="list-style-type: none"><li>• SolidWorks CAD &amp; FEA</li><li>• Ansys FEA</li><li>• AutoCAD, Mathcad</li><li>• General Mechanical Intuition</li><li>• MATLAB, Java, Python</li><li>• Manual Machining</li><li>• Adobe Creative Cloud</li><li>• Laser cutting, 3D printing, CNC milling</li></ul>	<ul style="list-style-type: none"><li>• Red Cross Lifeguard and CPR (2023)</li><li>• Wilderness First Responder (2022)</li><li>• ServSafe Food Handler (2021)</li><li>• Wisconsin Boater Safety (2020)</li></ul>	<ul style="list-style-type: none"><li>• Hard Working</li><li>• Dependable</li><li>• Problem Solver</li><li>• Enjoys camping and downhill skiing</li><li>• Enjoys spending time with family, friends and my dog</li></ul>