

# Charlie Cohen

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## EDUCATION

### Cornell University, Ithaca, New York

Class of 2026

B.S. Mechanical Engineering | GPA: 4.21 | 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

### Operations 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 over 100 national and international collegiate teams; consistent top 3 finisher across last 5 years
- Responsible for team management, purchasing, finances and logistics coordination for 2025-2026 team
- Designed and manufactured 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

### Teaching Assistant, System Dynamics — Cornell University

Fall 2025

- Will assist 190 students with content-related questions in their breakout group work sessions
- Will hold office hours for individualized support

### Mechanical Engineering Intern — SpaceX, Starlink, Redmond, WA

May-August 2025

- Worked on development of next generation Direct to Cell Starlink satellite
- Developed injection molded antenna element and die cutting process to improve manufacturability and mass
- Designed and analyzed mounting hardware for high profile oversized installation at SpaceX assembly facility

### Teaching Assistant, Statics and Mechanics of Solids — Cornell University

Spring 2025, Fall 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 — 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

### Senior Vice President — Cornell Computer Reuse Association

September 2022-September 2025

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

### 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

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>