Charles Hart

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OBJECTIVE
Seeking a Summer 2026 internship in vehicle and transportation systems engineering

EDUCATION
Cornell University, College of Engineering, Ithaca, NY   **Expected Graduation: December 2026**
Master of Engineering, Systems Engineering

Cornell University, College of Engineering, Ithaca, NY   **Expected Graduation: May 2026**
Bachelor of Science, Mechanical Engineering
Dean's List, Fall 2024, Spring 2025

Relevant Courses: Fluid Mechanics; System Dynamics; Mechanics of Materials; Mechanical Synthesis (Product Design); Dynamics; Statics & Mechanics of Solids; Computing Using MATLAB; Thermodynamics; Waves & Oscillations; Electromagnetism; Linear Algebra; Differential Equations, Heat Transfer; Mechatronics; Automotive Engineering; Internet of Things (work in Arduino/C++); Electric Vehicles; Uncertainty Analysis for Engineers (Statistical Data Analysis using Python)

TECHNICAL EXPERIENCE
Cornell Mars Rover Project Team, Cornell University, *Drives Sub-Team Member*   **Oct 2022-Jan 2025**
- Designed and produced a lightweight wheel-hub assembly utilizing 3D-printed tires and aluminum hubs, reducing weight from previous rover iterations for annual competition
- Identified external requirements set for the rover system by competition rules and established internal parameters to ensure compatibility with other sub-systems and overall rover system
- Became familiar with material sourcing processes from external vendors for rover component fabrication.
- Modeled components and built sub-system assemblies using CAD software (Autodesk Inventor) and performed stress and failure analysis using ANSYS
- Produced detailed machine-shop drawings and manufactured components using a mill and lathe equipment

PROFESSIONAL EXPERIENCE
Statler Hotel's Regent Lounge, Ithaca, NY, *Server*   **Mar 2023-Present**
- Work with a team of other servers and knowing how to continuously redistribute work evenly in a dynamically demanding environment
- Quickly memorize extensive food and beverage menus, while understanding allergens, liquor lists, and cocktail composition
- Manage multiple tasks at once in a fast-paced, highly demanding environment
- Maintain outstanding customer service while paying close attention to details and customers' needs
- Identify sales opportunities and when to recommend higher-end options based on customers' preferences

ADDITIONAL EXPERIENCE
Flamingo Lazeaway Club, Santa Rosa, CA, *Server's Assistant*   **Sep 2021-Jul 2022**

CAMPUS INVOLVEMENT
Cornell Men's Club Alpine Ski Team, Cornell University, *Member*   **Oct 2023-Present**

SPECIALIZED SKILLS
Professional: Multitasking, Customer Service, Problem Solving, Strategic Thinking, Teamwork, Group Dynamics, Quick Learning, Organization
Technical: Autodesk Inventor, MATLAB, Data Analysis with Python/Excel, C++, ANSYS, Shop Machining/Drawings
Languages: English (Native); Spanish (Professional Working Proficiency); Italian (Elementary Proficiency)