

EDUCATION

Cornell University, College of Engineering

Major in Mechanical Engineering

Candidate for Bachelor of Science

Ithaca, NY

Expected Graduation: May 2027

GPA: 3.40

Aviation Career & Technical Education High School

- Graduated top one percent of graduating class.
- Treasurer of National Honor Society.

Long Island City, NY

September 2018 - June 2023

GPA: 4.0

WORK EXPERIENCE

BAE Systems - Electronic Systems

Manufacturing Engineering Intern

Greenlawn, NY

May 2025 – Present

- Responsible for MES migration through conversion of legacy build instructions for mission-critical electronics.
- Standardized manufacturing processes across multiple defense programs, ensuring consistent quality standards.
- Led development of standardized tracking system for chemical compliance documentation, streamlining curing data management across multiple programs.
- Optimized and reduced cycle times within multiple high-volume production environments through workplan revisions and processes improvements.

Cornell Dining

Student Manager

Ithaca, NY

September 2023 - Present

- Led a team of 10-15 student employees, implementing food service protocols that improved operational efficiency by 25% during high-volume periods.
- Responsible for student recruitment and scheduling, ensuring optimal coverage across all shifts to support over 500 daily customer transactions.

Delta Airlines

Line Maintenance Intern

LaGuardia Airport, NY

February 2023 – June 2023

- Responsible for routine and non-routine inspection of Airbus A320 family, Airbus A220, and Boeing 737 aircraft.
- Performed scheduled and unscheduled maintenance of Airbus A320 family, Airbus A220, and Boeing 737 aircraft.
- Coordinated with pilots and led maintenance assignments to ensure seamless operation.

ENGINEERING EXPERIENCE

Cornell Autonomous Drone Project Team

Electrical Subteam

Ithaca, NY

August 2025 – Present

- Designed and implemented complex power distribution and data acquisition systems for multiple autonomous drones.
- Interfaced mechatronic hardware and control systems to enable autonomous flight capabilities.
- Fabricated custom electrical connections and high performance wire harnesses to meet rigorous quality standards.

Bewley Applied Turbulence Laboratory

Undergraduate Research

Ithaca, NY

February 2024 – Present

- Supported experimental configuration of compressible turbulence experiment utilizing schlieren imaging.
- Designed and implemented cooling system for high powered LED.
- Conducted performance testing of quadcopter drones under controlled wind tunnel conditions.
- Implemented autonomous drone flight capabilities through Arduino-based control systems.

Gulfstream G100 Assembly/Restoration Project

Project Lead

Long Island City, NY

August 2021 – June 2023

- Assembled the wings and associated flight controls of a Gulfstream G100 aircraft.
- Led team members in the engine run-up/testing operations of Honeywell TFE731-40R-200G turbofan engines.
- Developed troubleshooting procedures for hydraulic, fuel, electrical, and oil systems.

SKILLS & CERTIFICATIONS

Software: Creo Parametric, Solumina MES, Ansys, Microsoft Office, Matlab, Fusion360, Onshape, Solidworks

Certifications: FAA Airframe and Powerplant Certification - Issued by the Federal Aviation Administration

Relevant Classes: Thermodynamics, Statics, Dynamics, Mechanics of Materials, System Dynamics, Fluid Mechanics