

JUSTIN CHEN

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EXPERIENCE

ECOLIBRIUM AT LOISAIDA

Project Intern

New York, NY

Mar 2025 – Current

- Design a custom plug load monitoring solution using electrical sensors and microcontrollers capable of measuring and exporting data to files
- Solder connections and wire ESP32 microcontroller systems integrated with SEN66 sensors for environmental data collection
- Contribute to code development for displaying real-time telemetry from sensors to controllers

ARISE AT NYU TANDON SCHOOL OF ENGINEERING

Research Apprentice

New York, NY

Jul 2023 – Aug 2023

- Researched how differences in a penguin's anatomical structure impact their stability and gait
- Modeled and printed robotic penguin body parts that were lightweight and efficient for movements
- Assembled a stable-framed robot that achieved successful operation for the first time in 3 years
- Presented research findings at a closing colloquium and a symposium at the American Museum of Natural History

AVIATION MAINTENANCE TECHNOLOGY

Aviation Maintenance Technician

New York, NY

Sep 2020 – Jun 2024

- Managed shop operations by coordinating class time and ensuring productivity as Class Foreman
- Overhauled reciprocating engines and fabricated 10+ projects to reinforce aviation concepts
- Instructed classmates on proper procedures, tool usage, and PPE protocols to maintain a safe and efficient shop environment
- Performed various inspections and maintenance procedures on aircraft to validate airworthiness
- Maintained accurate documentation of repairs and inspections for compliance and safety records

ACTIVITIES

CITY PARKS FOUNDATION

Volunteer

New York, NY

Apr 2021 – Mar 2024

- Preserved local gardens by removing invasive plants and safely relocating native reptiles
- Improved park aesthetics by shoveling weeds and clearing displaced grass from pavement
- Engaged with the local community to identify and implement effective environmental solutions

EDUCATION

THE COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND ART

Bachelor of Engineering in Mechanical Engineering, Expected 2028

New York, NY

Sep 2024 – Present

- Honors; New York Merit Scholarship for Academic Excellence
- Cumulative GPA: 3.9/4.0

AVIATION CAREER AND TECHNICAL HIGH SCHOOL

Advanced Regents Diploma

New York, NY

Sep 2020 – Jun 2024

- Honors; National Honor Society
- Cumulative GPA: 4.0/4.0

ADDITIONAL

Technical Skills: Microsoft Suite, AutoCAD, Onshape, Key Creator Pro, Arduino, Python, C

Languages: English, Mandarin

Certifications & Training: Career and Technical Endorsement (NYSED)

Awards: AP Scholar with Honor