

## TAASEEN JAHAN

[taaseen.jahan@gmail.com](mailto:taaseen.jahan@gmail.com) | 347-791-4945

[www.linkedin.com/in/taaseenjahan](http://www.linkedin.com/in/taaseenjahan)

### EDUCATION

#### The Cooper Union for the Advancement of Science and Art

Bachelor of Engineering (Mechanical Engineering)

Overall GPA: 3.5/4.0

UFT Albert Shanker Scholarship Recipient, New York, NY, 2021-2025

Cooper Union Half-Tuition Scholarship Recipient, New York, NY, 2021-2025

Relevant Courses: Mechatronics, Heat Transfer, Mechanical Vibrations, Engineering Experimentation, Fundamentals of Aerodynamics, Autonomous Mobile Robots, Manufacturing Engineering

New York, NY

Expected May 2025

### RELEVANT EXPERIENCE

#### General Motors

*Engineering Design Intern for the Advanced Design Team in Electrification*

Warren, MI

May 2024 – August 2024

- Trained 48 hours in basic CAD and FEA using Siemens NX and Teamcenter Visualization
- Edited CAD models of high voltage connectors for flexible circuit boards and cell-monitoring units
- Referenced manufacturer drawings to design an EV battery cell in CAD for virtual testing
- Redesigned 2 “snorkel” covers that protect bus bars and RESS battery pack ports from water damage
- Created study files to propose edits for manufacturer header components
- Routed cooling lines and bus bars through RESS battery packs
- Toured pre-production operations and battery labs

#### The Cooper Union Summer STEM Program

*Teacher's Assistant*

New York, NY

July 2023 – August 2023

- Led 20 high school students in engineering and design projects contributing to the motorsports team
- Worked with students to improve and design a throttle lever with forged carbon fiber
- Learned and taught mold design and compression molding using NX
- Self-taught Finite Element Analysis using FEMAP to simulate stress on throttle lever
- Critiqued and helped student presentation skills with weekly presentations

### EXTRACURRICULAR ACTIVITIES

*Chief Mechanical Engineer, Cooper Union Motorsports, The Cooper Union*

New York, NY

August 2023 – Present

- Worked with fellow captains to recruit 40 new members
- Simulated 1D Torsion on wireframe CAD of racecar frame to predict potential weight reduction and rigidity using Siemens NX
- Updated system assemblies with the integration of new part designs in Siemens NX.
- Teaching new members basic CAD on Siemens NX and the engineering design cycle
- Overseeing the design, manufacturing, and testing of mechanical systems of the EV racecar

*Motor and Motor Controller System Lead, Cooper Union Motorsports, The Cooper Union*

New York, NY

August 2022 – June 2023

- Created mounting tabs for motor controller using Siemens NX
- Recorded documentation and schematics for wiring power supplies, inputs, switches, and sensors to motor controller
- Conducted Finite Element Analysis on CAD for mounting tabs using FEMAP
- Wired high voltage cables and resolver connections between motor and motor controller
- Developed motor test bench by connecting switches and inputs for start, ignition, acceleration, and emergency shutdown
- Collected data regarding motor temperature, voltage, current, and torque
- Competed in design presentation and technical inspections at the 2023 FSAE EV Competition

### PROJECTS

*FEA of Windmills, ME408-1 Introduction to CAE, The Cooper Union*

New York, NY

November 2023 – December 2023

- Collaborated with 4 students to design a windmill that can withstand given conditions
- Conducted hand calculations to determine a preliminary design
- Simulated static structural and modal load cases using Ansys Mechanical
- Compiled a report to prove the advantages and disadvantages of the windmill using FEA simulations
- Presented findings and simulations to other students and course professor

### TECHNICAL SKILLS

- CAD: Siemens NX, Teamcenter Visualization, Solidworks, AutoCAD, Inventor, Onshape, Altium, FEMAP, Ansys Mechanical
- Programming: C++, C, Python, Java, HTML, CSS, MatLab
- Word Processing: Word, PowerPoint, Excel, Google Docs, Google Slides, Google Sheets