Sean Djojonegoro

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Education

Cornell University - Bachelor of Science, Mechanical Engineering   Aug 2025 - Present

Tufts University - Bachelor of Science, Mechanical Engineering   Aug 2024 - May 2025
Relevant coursework: Numerical Methods (MATLAB), Computer-Aided Product Design
GPA: 4.0

Experience

ABC Batteries   May - Aug 2025
Workshop Volunteer
- Operated manufacturing machinery such as mill and lathe to produce replacement parts that kept the battery assembly line running smoothly
- Collaborated with technicians to identify and resolve machining challenges, adjusting manufacturing methods to achieve precise part tolerances
- Utilized SolidWorks to design and model and refine components for battery packs used in three-wheelers, telecommunications systems, and motorcycles
- Partnered with engineers and technicians to assemble battery packs, ensuring products met both functional specifications and production timelines

Activities

Tufts Electric Racing   Sep 2024 - May 2025
- Contributed to the design of battery accumulator systems, incorporating BMS units, high-voltage disconnect components, and other safety features to meet FSAE specifications
- Developed CAD models of accumulator box parts to verify assembly alignment, usability, and overall functionality
- Manufactured and assembled sheet-metal enclosures for accumulator housings as part of the fabrication team
- Facilitated collaboration between mechanical and electrical teams to support system integration and meet safety and performance requirements

Tufts SEDS Rocketry   Sep 2024 - May 2025
- Modeled and 3D printed an upgraded camera mount using CAD improving onboard footage stability and durability during flight
- Designed a mini ground station setup to enhance the team's data collection and telemetry monitoring process
- Collaborated on fabricating the team rocket's airframe and assembling the avionics bay .

Technical Skills

Programming Language: Java, C++, Matlab
CAD: Onshape, Solidworks, AutoCAD
Manufacturing: Mill, Lathe, Welding