

Aaryan Sonawane

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WORK EXPERIENCE

Honeywell Mission Systems

Woburn, MA

Process Engineering Intern

May 2024 –

- Optimized aerospace electronics manufacturing processes through hands-on production floor collaboration, directly improving operational efficiency and reducing bottlenecks across multiple product lines.

Baker Hughes

Billerica, MA

Mechanical Engineering Intern

May 2023 – August 2023

- Spearheaded the design and modeling of over 40 mechanical parts, including custom noise-reduction fixtures for fluid testing, using SolidWorks and adhering to GD&T standards.
- Leveraged LabVIEW and Python to optimize Piezoelectric Crystal and flow cell performance, essential for precision instrumentation in energy systems. Implemented Python-based algorithm to improve signal processing efficiency enabling the simultaneous analysis of multiple signals.

DESIGN PROJECTS

ECHO Lander

Troy, NY

Lead Simulation Engineer

August 2024 – December 2024

- Developed a pyramid configuration of 4 reaction wheels ensuring three-axis control with redundancy
- Integrated dual star trackers, IMUs, and a 3-axis magnetometer optimizing within a 25 kg ADCS mass budget

DDA Sensor

Troy, NY

Lead Software Engineer

August 2024 – December 2024

- Engineered simulation-driven proof-of-concept for orthopedic scanning technology, combining hardware prototyping with advanced FEA modeling to validate custom orthotic solutions for patients with flat feet

B2 Wing Project

Troy, NY

Lead Software Engineer

August 2023 – December 2023

- Took on the challenge of designing and analyzing a flying wing aircraft, modeled after the Northrop Grumman B-2 Spirit stealth bomber. The goal was to explore its low-drag potential and structural performance.

EDUCATION

Rensselaer Polytechnic Institute (RPI)

Troy, NY

BS Aerospace Engineering (GPA: 3.19)

August 2021 – May 2025

EXTRACURRICULAR ACTIVITIES

Minor League Cricket – New England Eagles, Certified Flight Training – East Coast Aero Club, Lambda Chi Alpha Fraternity – Social Chair + Publicist, Twitter – Content Creator, RPI Blockchain Club – Treasurer, RPI Futsal Club – Captain