

Aaryan Sonawane

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WORK EXPERIENCE

Honeywell Mission Systems

Woburn, MA

Process Engineering Intern

May 2024 – August 2024

- Developed and maintained machine-readable documentation for RF assemblies, aligning with military-grade standards and enhancing data accuracy. Coordinated cross-functional efforts to ensure compliance with contractual requirements, improving traceability and streamlining data submission processes.

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. Delivered precision prototypes ensuring the highest levels of accuracy.
- 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 Attitude Determination & Control System (ADCS) Engineer

August 2024 – December 2024

- As ADCS Lead for the ECHO Lander Mission, I designed a comprehensive attitude control system for operation on Europa's icy surface

DDA Sensor

Troy, NY

Lead Software Engineer

August 2024 – December 2024

- Developed an innovative sensor system for measuring structural deformation using a combination of hardware and software solutions. The project integrated multiple technologies for accurate displacement tracking.

B2 Flying Wing Project

Troy, NY

Lead Structural 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