JONHENRY W. POSS

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Education

Bachelor of Science in Mechanical Engineering — Jun. 2023
Massachusetts Institute of Technology, Cambridge, MA

Work Experience

MTech — Allston, MA — *Mechanical Engineer* — April 2025 – Current

- Aero, mechanical, and electrical design of lightshow drones and high-speed interceptor drones. Certified Drone Piloting. Team lead

Formlabs — Somerville, MA — *Mechanical Engineer* — January 2025 – April 2025

- Performing structural and thermal analysis to design powder handling systems for SLS printers. Working in Onshape to generate CAD and drawings.

Formlabs — Somerville, MA — *Hardware Engineer* — July 2023 – January 2025

- Designed lifetime test rigs for SLA 3D printers. Discovered premature mechanical failure in Z-axis components and weld failures in quick-release build platforms

Indigo Technologies — Woburn, MA — *Mechanical Engineering Intern* — June 2021 – August 2021

- Designed automotive components in CAD, performed thermal and structural FEA for brake rotors, and created drawings.

Undergraduate Research

Therapeutic Technology Design and Development Lab — Spring 2021

- Worked with castable rubbers to produce a hybrid soft/hard robotic prosthetic hand.
- *"A Multi-Material, Anthropomorphic Metacarpophalangeal Joint With Abduction and Adduction Actuated by Soft Artificial Muscles," IEEE Robotics and Automation Letters, July 2022*

MIT Sea Grant UROP — Spring 2022 – Summer 2022

- Characterized flapping hydrofoil performance using the MIT towing tank. Worked with force transducers, motor control, and data processing.

Skills

Languages: Fluent in English, proficient in Spanish
Software: Fusion 360, SolidWorks, HSMWorks, Onshape, Matlab, Arduino, Python
Lab/Shop: Soldering Equipment, Electronic Test Equipment, Instron, CNC and Manual Machines, Welder

Projects

Read More: Self Balancing Electric Unicycle

- Designed, machined, assembled, and programmed with PID control.

Read More: High Vacuum System

- Designed, machined, and programmed a high vacuum system with remote control server and physical vapor deposition setup.

Clubs/Extracurriculars

Massachusetts Institute of Technology Combat Robotics Club — President — 2019 - 2023
Massachusetts Institute of Technology Electrical Research Society — President — 2019 - 2023