

# JONHENRY W. POSS

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## Education

*Bachelor of Science in Mechanical Engineering* Jun. 2023  
Massachusetts Institute of Technology, Cambridge, MA  
GPA: 4.6  
*Relevant Coursework:* Thermal Fluid Systems Engineering, Mechanics and Materials, Numerical Computation, Circuits and Electronics, Differential Equations, Marine Hydrodynamics, Control Systems, Design and Manufacturing

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## Experience

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

- Designed automotive components in CAD, performed thermal and structural FEA, and created drawings with appropriate geometric dimensioning and tolerancing.

Formlabs — Somerville, MA *Test Engineer* July 2023 – Current

- Designed and manufactured test plans and test rigs for verifying mechanical and electrical components of SLA 3D printers.

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## Research

*Hybrid Hand UROP* 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.

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## 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

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## 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.

Read More: Robo-Hydrofoil (Undergraduate Thesis)

- Built a 5ft fiberglass remote-controlled boat with actively controlled hydrofoils.

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## Clubs/Extracurriculars

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

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