

JONHENRY W. POSS

(650)-484-6064 - possjonhenry@gmail.com - firedraakon.github.io/jonhenryposs/ - linkedin.com/in/jonhenry-poss

Education

Bachelors of Science (GPA: 4.6 - Mechanical Engineering Jun. 2023
Massachusetts Institute of Technology, Cambridge, MA

Relevant Coursework: Thermal Fluid Systems Engineering, Mechanics and Materials, Numerical Computation, Circuits and Electronics, Differential Equations, Marine Hydrodynamics, Control Systems, Design and Manufacturing

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 the purpose of verifying mechanical and electrical components of SLA 3D printers.
-

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 foils for foil boards using the MIT tow tank
-

Skills

Languages: fluent English, write/read Spanish

Software: Autodesk Fusion 360, Solidworks, Onshape, Matlab, Arduino, Python

Lab/Shop: Soldering Equipment, Electronic Test Equipment, Instron, CNC and Manual Machines, Welder

Projects - jonhenryposs.wordpress.com/blog-2/

Self Balancing Electric Unicycle - Individual

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

Snow Motorcycle- Individual

- Designed, welded, and assembled a tracked, electric motorcycle

Robo-Hydrofoil (Undergraduate Thesis) - Individual

- Built a remote controlled boat with actively controlled hydrofoils
-

Clubs/Extracurriculars

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

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