KATANA RAIN FINLASON

katanaf@mit.edu
Cambridge, MA 02139
(857) 210-4021

Skills

- CAD/CAM (SolidWorks and Fusion 360)
- Machining and experience using power tools
- Trained in Matlab and Excel
- Rapid prototyping
- Illustrator (Artistically inclined)

Education

September 2019 - June 2023

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (M.I.T.) Class of 2023
B.S. in 2A Mechanical Engineering, GPA 4.9/5.0

- ➔ Concentration in Industrial Design with a minor in Energy Studies.
- ➔ Relevant coursework: Mechanics and Materials, Numerical Computation, Mechanical Engineering Tools, Dynamics and Control, Design and Manufacturing I&II, Differential Equations, Classical Mechanics, Thermal-Fluids Engineering, Measurement and Instrumentation, Electronics for Mechanical Systems, Product Engineering Process, Design for Scale, Applications of Energy in Global Development, Elements of Mechanical Design.

September 2023 - June 2025

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (M.I.T.) Class of 2025
Candidate for M.S. in Mechanical Engineering

- ➔ Working as a member of CADLab while pursuing my studies further in graduate school. Focusing on machine/product design in the MechE Department.
- ➔ Awarded the Martin Fellowship for AY2024

Job Experience (Cambridge, MA)

February 2023 - Present

Department of Mechanical Engineering at MIT
Instructor for 2.009 'Product Engineering Process' & 2.00B 'Toy Product Design'

- ➔ Team Instructor for a freshman engineering class during Spring 2023, and Instructor/TA for a senior engineering class during Fall 2023. Mentoring engineering teams, preparing lecture material, designing graphics, and actively working to better engineering education.

February 2022 - June 2023

MIT Pappalardo Lab
Undergraduate Apprentice/Mentor for the class Design and Manufacturing I

- ➔ Worked in the Mechanical Engineering Lab 'Pappalardo'. My duties included assisting students with their robot construction and giving them advice on the best fabrication techniques. Machined my own fully-functioning Stirling engine.

September 2022 - June 2023

MIT Laboratory for Manufacturing and Productivity (LMP)
Lab Assistant

- ➔ Worked in a Mechanical Engineering Lab called the 'LMP'. My duties included helping students navigate the class Design and Manufacturing II while working closely with course staff to improve the structure of the class.

June 2022 - September 2022

MIT CADLab UROP
Undergraduate Researcher

- ➔ Designed and built the housing and optical fluidics system for a digital holographic microscope. Gained more experience in 3D printing techniques and laser cutting.

June 2021 - August 2021

Mechanical Engineering UROP at MIT Sea Grant (remote)
Undergraduate Researcher

- ➔ Studied the effects of rising CO_2 levels on ocean acidification and ultimately the impact it would have on calcifying organisms, such as mollusks, in the New England area. Conducted a meta analysis by collecting data, making database entries and performing the necessary calculations.