

KATANA RAIN FINLASON

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Skills

- CAD (SolidWorks and Fusion 360)
- Machining and experience using power tools
- Trained in Matlab and Excel
- Chemistry lab skills
- Artistically inclined

Education

September 2019 - Present

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (M.I.T.) Class of 2023

Candidate for B.S. in Mechanical Engineering, GPA 4.9/5.0

- Minor in Energy Studies.
- Relevant coursework: Mechanics and Materials I, Numerical Computation, Mechanical Engineering Tools, Dynamics and Control I, Design and Manufacturing I&II, Toy Product Design, Calculus I&II, Differential Equations, Classical Mechanics, Electromagnetism/Electrostatics, Science Writing for the Public, Thermal-Fluids Engineering I, Measurement and Instrumentation, Electronics for Mechanical Systems, Earth Science, Principles of Microeconomics/Macroeconomics, Energy Economics & Policy

Job Experience

February 2022 - present

MIT Pappalardo Lab (Cambridge, Massachusetts)

Undergraduate Apprentice/Mentor for the class Design and Manufacturing I

- Currently working in the Mechanical Engineering Lab 'Pappalardo'. My duties include assisting students with their robot construction and giving them advice on the best fabrication techniques. In the process of machining my own Stirling engine.

June 2021 - August 2021

Mechanical Engineering UROP at MIT Sea Grant (remote)

Undergraduate Researcher

- Studied the effects of rising CO2 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.

February 2021 - May 2021

Department of Biology at MIT (Cambridge, Massachusetts)

Introductory Biology Teaching Assistant

- Worked closely with course staff to create exams and keep the class engaging. Organized and taught lessons to my own recitation section.

June 2020 - October 2020

AIM Educational Services (Kingston, Jamaica)

SAT Mathematics Teaching Assistant

- Created lesson plans, taught virtually over Zoom, and wrote reports.

Awards

- Valedictorian of the top All Girls High School in Jamaica (2017)
- Received Principal's Honor Roll (2019)
- Placed nationally (Jamaica) and regionally (Caribbean) in CSEC and CAPE examinations (2017-2019)
- Good Citizenship Award (7 years in a row)

Leadership Experience

September 2015 - June 2019

Prefect Council (student government), Immaculate Conception High School

Deputy Headgirl

- Coordinated school events with the Administrative Staff as well as the Home School Association and gained experience in public speaking.

September 2014 - June 2019

Science Environment Technology and Health Club, Immaculate Conception High School

President

- In charge of lab maintenance and experimental setups.

September 2012 - June 2019

Lawn Tennis Team, Immaculate Conception High School

Captain

- Organized training and worked well in a team setting.