

EDUCATION

PRESENT | **Massachusetts Institute of Technology**
September 2019 - Expected Graduation Date of May 2023
Senior majoring in Electrical Engineering and Computer Science (6-2).

EXPERIENCE

SUMMER 2022 | **ForeLight**
Embedded Systems Engineering Intern
Designed and prototyped a bioreactor control and monitoring system to run on an embedded Linux device. Designed with distributed systems goals in mind such as resiliency and flexibility.

FALL 2021 | **ForeLight**
Electrical Engineering Intern
Worked on bioreactor LED control systems. Designed and built a manual control interface that was mounted into a NEMA 4 enclosure.

FALL 2020 | **Novo Space**
Remote Internship
Worked to develop a telemetry visualization/storage system ready to be deployed on embedded systems.

RELEVANT COURSEWORK

FALL 2022 | **Operating Systems Engineering**
6.1810
Focus on fundamental concepts such as virtual memory, context switches, system calls, interrupts, and other interactions between hardware and software.

SPRING 2021 | **Introduction to Machine Learning**
6.036
Covered topics such as perceptrons, neural nets, classification problems as well as hidden Markov models. Returned as a lab assistant in Fall 2021

SKILLS & INTERESTS

- Experience programming in Go, Python, C/C++, and Bash
- Dockerized an application to leverage small (20MB) final build sizes
- Designed hardware using HDLs such as Minispec and then programmed said hardware using RISC-V.
- Prototyped on several microcontrollers and SoCs such as BeagleBone Black, Raspberry Pi, and ESP-32.
- Familiarity with several flavors of Linux including Ubuntu, Debian, Fedora, and Arch.
- Corebooted my Thinkpad x230 with a ch341a external programmer to remove the BIOS whitelist.

EXTRACURRICULAR ACTIVITIES

PRESENT | **Gordon Engineering Leadership**
Developing leadership, teamwork, and communication skills in a selective leader development program for engineering undergraduates.

PRESENT | **Delta Kappa Epsilon**
President of the Sigma Tau chapter of Delta Kappa Epsilon for the 21-22 academic year.