

EDUCATION

FALL 2019 -
SPRING 2023

Massachusetts Institute of Technology

Majoring in Electrical Engineering and Computer Science (6-2)

Relevant Coursework: Introduction to Machine Learning, Operating Systems Engineering, Introduction to EECS via Inter-connected Embedded Systems, Fundamentals of Programming, Computation Structures

EXPERIENCE

SUMMER 2022 -
SPRING 2023

Embedded Systems Engineering Associate

ForeLight

Continued work on the bioreactor control and monitoring scheme developed for resource-constrained embedded devices. Began implementing a central database with support for live monitoring. Designed and developed a bioreactor control and monitoring system to run on an embedded Linux device. Created with distributed systems goals in mind such as resiliency and flexibility

FALL 2021 -
SPRING 2022

Electrical Engineering Intern

ForeLight

Built several bioreactor LED control systems. Designed and built a manual control interface that was mounted into a NEMA 4 enclosure

FALL 2020

Remote Internship

Novo Space

Worked to develop a telemetry visualization/storage system ready to be deployed on embedded systems. Utilized tools such as Docker for consistent deployment across architectures

EXTRACURRICULAR ACTIVITIES

FALL 2021 -
PRESENT

Gordon Engineering Leadership

Developing leadership, teamwork, and communication skills in a selective leader development program for engineering undergraduates

FALL 2021 -
SPRING 2022

Delta Kappa Epsilon

Served as chapter President

FALL 2021 -
PRESENT

Delta Kappa Epsilon

Member

SKILLS & INTERESTS

- Experience programming in Go, Python, C/C++, and Bash
- Familiarity with several flavors of Linux including Arch, Ubuntu, Debian, and Fedora
- Dockerized an application to allow for deployment on resource-constrained embedded devices
- Experience using several microcontrollers and SoCs such as the BeagleBone Black, Raspberry Pi, and ESP-32
- Designed hardware using HDLs such as Minispec and then programmed said virtual hardware using RISC-V
- Corebooted my ThinkPad x230 with a ch341a external programmer to remove the BIOS whitelist and disable the Intel Management Engine