

EDUCATION

PRESENT	Massachusetts Institute of Technology <i>September 2019 - Expected Graduation Date of May 2023</i> Majoring in Electrical Engineering and Computer Science (6-2) <i>Relevant Coursework:</i> Introduction to Machine Learning, Operating Systems Engineering, Introduction to EECS via Interconnected Embedded Systems, Fundamentals of Programming, Computation Structures
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EXPERIENCE

FALL 2022 - SPRING 2023	ForeLight <i>Embedded Systems Engineering Associate</i> 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
SUMMER 2022	ForeLight <i>Embedded Systems Engineering Intern</i> 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	ForeLight <i>Electrical Engineering Intern</i> Built several bioreactor LED control systems. Designed and built a manual control interface that was mounted into a NEMA 4 enclosure
FALL 2020	Novo Space <i>Remote Internship</i> 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

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

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 Served as chapter President during the 21-22 academic year