**Keegan Deppe**
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# EDUCATION

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

# EXPERIENCE

| FALL 2022 | **ForeLight** |
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| | *Embedded Systems Engineering Intern* |
| | 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** |
| | *Embedded Systems Engineering Intern* |
| | 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 | **ForeLight** |
| | *Electrical Engineering Intern* |
| | 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** |
| | *Remote Internship* |
| | 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** |
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| | 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 |