Keegan Deppe
kdeppe@mit.edu
(616) 540-6381
keegandeppe.com

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
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
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