Sam O'Nuallain

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Summary

Well-rounded, driven computer engineering student with demonstrated leadership and communication skills interested in a software engineering internship for Summer 2022.

Education   Anticipated May 2025

University of Massachusetts Amherst, Commonwealth Honors College, 4.0 GPA
Major: Bachelor of Science in Computer Engineering
Clubs: Product Management, Machine Learning

Relevant Courses

Data Structures and Algorithms, Intro to Linear Algebra, Physics I & II, Calculus I II & III

Work Experience

TA at BWSI at MIT Lincoln Laboratories   June 2021 - August 2021
- Worked with 3 other TA's to aid a MIT LL employee in running a fully remote summer engineering course for 24 high school juniors from across America
- Coordinated with MIT LL engineers to create labs centered around using python and opencv to utilize the bluetooth and camera capabilities of a raspberry pi

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Academic Projects

MIT Beaverworks Summer Institute Build a Cubesat Program   July 2020 - August 2020
- As part of a small team, learned and implemented electrical and software engineering to build a prototype nanosatellite
- Team head of imaging subsystem; programmed an image processing software to reliably identify objects and manipulate images for data transfer using OpenCV
- Coordinated interfaces with other subsystem heads and constructed final software architecture

BWSI PiPact Independent Research Paper   July 2020 - August 2020
- Researched bluetooth low energy contact tracing technology for the MIT PACT consortium at BWSI using raspberry pi's.
- Broadcasted and interpreted data from multiple decentralized devices to better estimate distances, using a python bluetooth API and matplotlib to record and analyze data

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Leadership

Treasurer of Oak and Sycamore House Council   September 2021 - present
- Managing programming board for social events, and helping to run weekly team meetings
- Managing activities budget for residence halls consisting of 600+ students

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Skills: Python, Java, OpenCV, Shell, Raspberry Pi, Bluetooth