

Mitchell Long

Computer Systems Engineer Student who daily drives linux

EXPERIENCE

Lowes, Latham, New York — Part-Time Associate

July 2024 - Ongoing

ThinAir, Remote — Software Intern

April 2025 - July 2025

Built full-stack software with integrated AI to improve user experience. Created a RAG vector database to allow for swift searching of any files that a user uploaded. Created project scaffolding software to develop entire projects.

Greenhouse Research, Troy, New York — Software Engineer

August 2023 - August 2024

Worked on full-stack for software and hardware for the project. Front-end included a website with intuitive controls to send requests to the back-end software directly interacts with the hardware.

Faculty Advisor: Asish Ghosh; Project Lead: Jeff Osborne

EDUCATION

RPI, Troy— B.S. Computer and Systems Engineer

September 2023 - Ongoing (Expected Graduation Dec 2026)

PROJECTS

8-bit CPU — 2025 — Ongoing

Designed and soldered portions of an ALU. Currently solving logic bugs on the module. Built a working half adder and am moving onto a full adder module.

Forgekit — 2025 — Ongoing

Forgekit can scaffold entire software projects and reduce development time to a couple of days, even for complex projects.

Smart Storage — 2024

Created an AI-enhanced S3 storage demo that allowed users to upload various file types (PDF, image, document), enabling users to easily find files based on the file content.

SKILLS

Software Development

Electronics Hardware

Web Development

Communication

CAD

KiCad

UX / UI Design

Python (Django, Numpy, PyTorch, etc.)

Docker

C / C++

Embedded Software

Linux

Contact Me

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Activities

RPI IFC President

Dec 2024 - Apr 2025

Product Owner & Scrum

Master at Pi Kappa Phi - RPI

Feb 12th - Sept 28th

Links

[GitHub](#)

[Website](#)

[LinkedIn](#)