

# NOAH FISHER

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## education

### Massachusetts Institute of Technology

August 2019 - February 2024

*B.S. in Electrical Engineering & Computer Science*

Cambridge, MA

*B.S. in Mechanical Engineering with a concentration in Control, Instrumentation, and Robotics*

**Relevant Courses** Autonomous Robotic Systems, Robot Manipulation, Machine Learning, Power Electronics, Dynamics & Control, Product Engineering Process, Electromagnetic Fields Forces & Motion

## experience

### Robotics Instructor/Engineer

January 2024 - Present

*The Robo Hub*

Cambridge, MA

- Engineering custom robot and designing curriculum for a comprehensive 3-course robotics program (MS/HS)
- Establishing and maintaining a well-equipped maker-space (3D printers, laser cutters, etc.)
- Engineered interactive projector systems (2) consisting of a custom PC, blended projectors, and multiple 3D cameras

### Research

June 2023 - August 2023

*MIT Marine Robotics Group*

MIT

- Restored old SDR BlueROV2 Heavy Configuration and got it setup in ROS
- Installed arm to robot as part of a project to autonomously pick up trash from a pool

### Hardware Engineering Intern

June 1, 2022 - August 12, 2022

*Auradine*

Campbell, CA

- Collaborated with the FPGA team at a web3 infrastructure startup developing semi-custom ASICs for bitcoin mining
- Wrote test benches for the ASIC RTL code and experimented with our design on FPGA boards
- Used Xilinx's Vivado Design suite and wrote code primarily in SystemVerilog

### Research

September 2020 - May 2021

*MIT Computer Science & Artificial Intelligence Laboratory*

Remote

- Implemented a Program Synthesis approach to the Abstraction & Reasoning Corpus (ARC) to develop a machine with more fluid intelligence
- Designed List Processing Language with reduced instruction set, limiting the possible enumerable programs

### Embedded Systems Intern

October 2020 - December 2020

*Novo Space*

Remote

- Containerized satellite telemetry system using Docker with Grafana, Node-Red, & InfluxDB containers

## extracurriculars

### Autonomous Machines

May 2020 - May 2023

*New Engineering Education Transformation (NEET)*

Massachusetts Institute of Technology

- Placed 3rd in a competition to design and constructed a UGV robot
- Developed perception software for drone that autonomously drops and retrieves sensor pods in wild environments

### Misc.

- OnTrack Robot, MIT Pokerbots, Varsity Football, Delta Kappa Epsilon, UPOP, Theatre

## skills & interests

### Computer Languages

Python, C, C++, SystemVerilog, & Assembly

### Technologies

Linux, ROS, Drake, Embedded Systems, CAD, Docker, Git

### Interests

Sports, Reading, Coffee, Fitness, Netflix, Outdoors, Games, & Dogs