

# Aidan Lam

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## EDUCATION

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### The Cooper Union for the Advancement of Science and Art

NYC, New York

*Bachelors of Engineering, Electrical Engineering*

*Sep 2025 — May 2029*

- ❖ CU Half Tuition Scholarship 2025 - 2028
- ❖ CU Full Tuition Scholarship 2028 – 2029
- ❖ CU Innovator's Merit Scholarship 2025-2029

Relevant Coursework: Digital Logic Design, Engineering Design & Problem Solving

## PROJECTS

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### ProtoType – Multifaceted Typing Website

Stuyvesant High School

*Software Development*

*Senior Year, Semester 2*

- ❖ Led development of full stack typing website, featuring real-time multiplayer and LaTeX syntax support using KaTeX
- ❖ Built frontend with React + Vite and backend with Node.js, using WebSocket for live updates and MongoDB to store data
- ❖ Deployed application with Digital Ocean droplet and .tech domain, enabling 24/7 use on any compatible browser

### Automated Waste Sorting System

The Cooper Union

*EID101*

*Freshman Year, Semester 1*

- ❖ Created apartment-scale system that sorts between organic and inorganics to reduce methane emissions and promote more sustainable waste management
- ❖ Implemented with Arduino-based control, multiple sensors to detect waste type and a pivot mechanism for precise sorting

## WORK EXPERIENCE

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### Mentor

Virtual, NYC

*PupilPrep*

*Jun 2023 — Aug 2023*

- ❖ Mentored elementary school students in Math and English through one-on-one sessions
- ❖ Constructed lesson plans with selected worksheets and activities tailored to individual mentees
- ❖ Maintained a consistent schedule and tracked progress to help keep learning on track

### IT Technician

Manhattan, NYC

*MicroLab, The Cooper Union*

*Sep 2025 — Current*

- ❖ Troubleshoot and resolved network connectivity issues, including configuring systems to ping a main server to monitor uptime
- ❖ Managed automated tasks using Ansible, including restarting services across multiple computers
- ❖ Responsible for resetting passwords and responding to other requests via email

## EXTRACURRICULAR ACTIVITIES

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- ❖ **Autonomy Lab:** Gaining hands-on experience in designing autonomous systems, PCB design, and hardware development through projects like building a functional temperature sensor
- ❖ **CHAI TEAM:** Building foundational skills in Linux system administration and open-source contributions; on a pathway toward becoming a Linux maintainer

## TECHNICAL SKILLS

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**Programming Languages and Software:** Python, Arduino IDE, C++, HTML + CSS, Git/GitHub, LaTeX

**Systems and Platforms:** Unix/Linux, DigitalOcean, Ansible

**Design:** OnShape, Logisim Evolution, AutoCAD, Altium Designer, LTSpice

**Hardware & Tools:** 3D printing (Prusa), Laser Cutting (Epilog)

**Productivity/Management:** MS Office, Google Suite, Canva