

Elaine Liu

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Bachelor of Science in Electrical Engineering & Computer Science, Concentration in Political Science

Aug 2022 – May 2026

- GPA: 4.4/5.0 | Sloan Business Club Entrepreneurship MD, Panhel VP Community Development, Roadkill Buffet Improv Group
- Courses: Computation Structures, Circuits and Systems, Intro to Algorithms, Dynamic System Modeling & Control Design

Charlotte Latin School

Charlotte, NC

- SAT: 1580, GPA: 4.8/4.0 weighted, Student Body President; Top 5 in the US for World Schools Debate **Aug 2018 – May 2022**

EXPERIENCE

Thrive Capital

Manhattan, NYC

Thrive Fellow

Jun 2024 – Aug 2024

- Selected as one of four inaugural fellows from 6k+ applicants; created a sophisticated financial model for a \$400M valuation AI robotics company, projecting cash burn scenarios and recommending initiatives to optimize runway; presented to CEO
- Orchestrated comprehensive due diligence on a high-growth brain-computer interface startup, including expert calls, market sizing, and competitive landscape analysis, culminating in a detailed 30-page investment memo presented to firm leadership

VIA Technologies

Taipei, Taiwan

Software Engineer - Deep Learning Intern

Jun 2023 – Aug 2023

- Optimized data augmentation methods for vehicle BEV (Bird's Eye View) perception model training and wrote Python data sub-setting script to maintain public nuScenes dataset distributions in test sets, improving speed by 9% and precision by 13%
- Created Python internal inference visualization tool, outputting BEV visualizations using six images from a construction vehicle

Enventys Partners

Charlotte, NC

Electrical Engineering Intern

May 2022 – Jul 2022

- Programmed IoT hand sanitizer usage management interface using C++ and Particle that detects when compartments need refills, worked directly with client CEO and to be deployed across NYC subway hand sanitizer network of 400+ stations
- Designed central printed circuit board with EAGLE (Fusion360) for fire alarm detection product, currently in production

Fab Academy

Charlotte, NC

Graduate

Jan 2020 – Jun 2020

- Delivered 19 projects covering CAD, machining, electronics design and production, embedded programming, I/O devices, and networks for the professional-level rapid prototyping course run by MIT Prof. Neil Gershenfeld based on How to Make Anything
- Built capstone project 0→1: an ATtiny1614/3216-powered capacitive sensor touch map with an accompanying Processing program display; manufactured self-designed board, documented build process, outlined BoM, presented before audience of 300+

RESEARCH AND TEAMS

Contrary

Boston, MA

Lead Venture Partner

Jul 2023 – present

- Sourced top early-stage founders and startups, writing introductions, conducting due diligence on a variety of tech markets, moderating pitch meetings, and resulting in \$100K+ invested across three deep tech companies
- Lead team of 6 to organize 4 builder events (i.e. hackathon sprints, pitch competitions) with 20-70 attendees by planning logistics, executing marketing strategy, managing budget, moderating discussions, and forging relationships with builder communities

MIT Media Lab

Boston, MA

Undergraduate Researcher – Fluid Interfaces

Sep 2024 – present

- Developing hardware to refine signal processing in AlterEgo, a non-invasive, wearable, neural interface for silent speech and communication with devices; project featured on 60 Minutes, TED.

Undergraduate Researcher – Conformable Decoders

Sep 2023 – May 2024

- Devised experiment and built Python *matplotlib* and *plotly* scripts to characterize electromechanical behavior of piezoelectric transducers in water for a cosmeceutical drug delivery patch; findings included in paper published in Advanced Sensor Research
- Conducted literature review and researched new women's health applications of ultrasound technology; iteratively designed a cervical device for controlled IVF progesterone delivery, created and presented proposal deck to get approval from lab director

Prod (startup accelerator non-profit, \$2B+ total cohort valuation)

Remote

Cohort 3.0 Admin

Jun 2023 – Sep 2023

- Founded Prod Summer cohort program for new founders and mentored teams through early growth decisionmaking
- Spearheaded the alumni fundraising program; established relationships with CEOs of HubSpot and VC firms, to raise \$160K+

ADDITIONAL

- **Skills:** Altium, EAGLE, Python, C++, Java, PyTorch, JavaScript, Next.js, MongoDB, Conversational Chinese and Spanish
- **Interests:** Computer Vision, Health & Consumer Tech, Entrepreneurship, Philosophy & Ethics, Drawing, Skateboarding, Improv