

Amy Liu

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Education

University of Michigan

April 2025

Ann Arbor, MI

- **GPA:** 4.0/4.0
- **Major:** Electrical Engineering, **Minors:** Math, Computer Science
- **Course Highlights:**
 - *In Progress:* Signals and Systems, Logic Design, Computer Organization
 - *Completed:* Electronic Circuits, Electrical Engineering Systems Design I, Programming and Data Structures
- **Skills:** Altium; PCB Design; Circuit Schematic Design and Layout; Arduino; Breadboarding; C++; Technical Writing; Chinese, Spanish
- **Certifications:** IBM Accelerate – Hardware Developer (Aug. 2022);
IBM SkillsBuild Explore Emerging Tech (June 2022)

Work Experience

University of Michigan Office of Culture, Community, and Equity

Oct. 2022 - present

Ann Arbor, MI

Program Advisor

- Assisted in teaching Arduino course involving circuit theory and interactive labs to ~30 12th graders
- Debugged student projects and used hands-on methods to explain unclear concepts
- Hosted personalized weekly tutoring sessions on calculus

IBM

June 2022 - Aug. 2022

New York, NY

Accelerate Program, Hardware Track

- Collaborated with 2 Accelerate students to create paper and presentation on sequential and combinational circuits and their role in computer chip design
- Participated in weekly sessions on topics such as chip verification and logic design

Cisco Systems

May 2022 - Aug. 2022

New York, NY

Cloud Technical Writer Intern

- Developed proof of concept using Flare (XHTML software) for new company-wide documentation portal
- Reorganized, updated, and edited Cisco Umbrella (cloud security provider) documentation (5000-10000 views/day)
- Wrote and standardized UI text for 96 pages of Umbrella's user interface

Hovden Lab

Sept. 2021 - May 2022

Ann Arbor, MI

Research Assistant

- Designed modular probe station for in-situ electronic transport of 2D materials
- Verified design using samples with known values; created Excel plots and tables to represent testing data

Student Organizations

Michigan Mars Rover

Sept. 2022 - present

Ann Arbor, MI

Embedded Hardware Subteam

- Created schematic and layout for custom 24V converter PCB using Altium Designer
- Trained in circuit schematic design, layout, and soldering using a practice butterworth filter

University of Michigan Undergraduate Research Journal (UMURJ)

Sept. 2021 - present

Ann Arbor, MI

Physics/Math Associate Editor

- Supervised review and publication process of physics and math papers by communicating with authors, coordinating with faculty reviewers, and reviewing and editing manuscripts
- Performed outreach by posting flyers and contacting undergraduate coordinators of ~6 science departments

University of Michigan Science Olympiad (UMSO)

Sept. 2021 - present

Ann Arbor, MI

TEC Officer, Event Supervisor

- Designed and supervised 6-month planning procedure for 7 inquiry-based Science Olympiad events
- Wrote test, planned build procedure for Div. B Sounds of Music event of UMSO's February 2022 invitational