Alice Xu

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Education

Princeton University - Princeton, NJ - Class of 2028   **Hunter College High School** - New York, NY - Class of 2024

Major: Electrical & Computer Engineering   **Minors:** Entrepreneurship; Computing, Society and Policy

Projects: Designed and implemented a custom 16-instruction processor in Verilog, verified functionality with assembly code, and deployed the design on an FPGA.

Science, Technology, & Engineering

Robotics Lab Assistant, Princeton University, September 2025 - Present
- Maintaining and troubleshooting lab equipment including Ultimaker S3 & S7 Printers, J55 Printer, laser cutter, waterjet cutter, Vicon tracking system, and Franka robot arm.
- Assisting students and researchers with hardware setup, calibration, and safe operations of robotics platforms; leading onboarding training; contributing to Robotics Lab equipment manuals.

Robotics Club Bionics Team, Princeton University, September 2025 - Present
- Working on electrical team: designing circuits, soldering for PCB boards for prosthetic hand project
- Assisting in planning & launching of new project for prosthetic heart

Undergraduate Research Assistant, Princeton University, June 2025 - September 2025
- Working with Princeton Professor Dr. Andrea DiGiorgio building an app storing primate food nutrition breakdowns.
- Learning and applying Javascript, HTML, CSS; backend development and frontend design.

Intern, Lenox Hill Hospital Neurosurgery Clinical Research, June 2023 - August 2023
- Observed work in a clinical research setting for 30+ hrs/week.
- Researched and presented a 15+ page original kidney dialysis research protocol to the Board of Auxiliary.
- Observed surgery in neurosurgery operating rooms; learned about FDA regulations and protocols.

Other Employment & Activities

Design Team, Princeton Entrepreneurship Club, September 2025 - Present
- Member on selective E-club subteam, responding to campus student organizations requests for graphic design or UI/UX work; experience with Adobe Illustrator, Express, Photoshop, Canva, Figma; web design

Private Tutor, December 2022 - Present
Princeton Collegebound Review, Victoria Children's Group, Mini Ivy Tutoring School
- Paid jobs; responsible for classrooms of 20+ students aged 3-10; community outreach with parents and local businesses
- Tutoring SAT and college essay revision for local Princeton community

Social Chair, Princeton Asian American Students Association, January 2025 - Present
- Met with Princeton Undergraduate Student Government and financial officers to discuss budget, planning, and scheduling for several study breaks, luncheons, and dinner banquets; planning social events for largest cultural club on campus

President, Hunter College High School Key Club, September 2018 - March 2024
2023 President, 2022 VP, 2021 Treasurer, 2020 Events Committee Head
Nonprofit Volunteer: ASPCA, UA3 Food Pantry, Meals on Wheels, Fun Fun Saturday Camp
- Led a 30+ member club to plan community service and inter-club events; 300+ service hours accumulated
- Certified to train animal rescues at ASPCA; assisted customers and clients with adoption paperwork
- Oversaw food distribution; assisted customers in Mandarin, Cantonese, and English with registration documents.

Honors and Awards

2024 Scholastic Writing Silver Keys - Journalism, Personal Memoir
2023 Questbridge National Match Scholar
2023, 2022, 2021 Science Olympiad Regional Champion
2022 President's Volunteer Service Award

Skills

- Verilog, Excel, Java, Javascript, HTML, CSS, Python, CAD Design, KiCad/PCB Design (All Basic Proficiency)
- 3D printers, Resin 3D printers, Laser Cutters, Waterjet Cutters, Woodwork Machinery, Soldering, Vicon Tracking, Franka Arm - use & maintenance, Princeton Robotics Lab Manager Certified-to-Train
- Mandarin - Conversational/Limited Professional Proficiency
- Excellent conversational, communications and networking ability