

# Hugo Hu

646-477-8119 | [hugo@hugohu.me](mailto:hugo@hugohu.me) | [hugohu.me](http://hugohu.me)

## Education

**Stuyvesant High School**

Clubs: Stuyvesant HS Math Team

**New York, NY**

**June 2026**

## Experience

### Hack Club

**Shelburne, VT and Remote**

#### **Onboard Hardware Engineering Reviewer**

**November 2023 - Present**

- Assisted high schoolers with no previous PCB design experience to create first PCB designs
- Reviewed PRs for Hack Club's Onboard PCB Grant Program, offering technical expertise and design review for submitted designs

#### **Blot Hardware Engineering Intern**

**May 2023 - Present**

- Designed tailor-fit control board with input from mechanical and firmware engineers in KiCAD v7
- Identified mechanical weaknesses and safety concerns in generic USB Type-C power sink boards and designed open source CYPD-3177 based PD sink with superior mounting and reliability
- Worked in-person full-time in Shelburne, VT during summer of 2023, continuing remotely

#### **Sprig Hardware Engineer**

**April 2022 - June 2023**

- Worked with a small team to create a small handheld gaming console with audio and video output running games with JS syntax in web-based editor
- Captured schematic from breadboard prototype to deliver production board design
- Responsible for production and delivery of two batches totaling 450 boards

#### **Mail Team Coordinator**

**July 2021 - June 2023**

- Developed software to utilize USPS Intelligent Mail on outgoing mail pieces
- Drastically reduced costs while improving delivery speeds and customs clearance

## Personal Projects

### Dynamic Image Gallery

- Built a photography portfolio with Cloudinary CDN and Supabase SQL database

### USB2.0 Type-C Hub

- Designed and tested length-tuned USB2.0 4-port hub PCB with Type-C input and output
- Implemented USB-C Design Guidelines on Configuration Channel (CC) pins

### USB2.0 Type-A to Type-C Conversion Primer

- Used multiple application notes from major companies (TI, Microchip, STmicro) to write simplified and concise implementation guide for beginners to PCB design

### Personal Website

- Created a personal website with HTML and CSS deployed to Vercel

### NXP NTAG I2C Plus EV Board

- Implemented NXP NTAG I2C Plus 2K chipset breakout with a Class 4 PCB coil antenna as an NFC tag

## Skills, Interests, and Awards

**Technical:** KiCAD, C, C++, Python, Javascript, HTML/CSS, Ruby, LaTeX

**Language:** English (native), Mandarin (fluent)

**Laboratory:** Soldering, reflow and rework equipment

**Awards:** Gold President's Volunteer Service Award (2021)