

# HUGO HU

✉ hugo@hugohu.me | 🗂️ Hugoyhu | 💬 Hugo Hu

## EDUCATION

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### Stuyvesant High School

2026

- Clubs: Stuyvesant Math Team, Mu Alpha Theta, Spectator Photos, Indicator Photos

## EXPERIENCE

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### Memorial Sloan Kettering Cancer Center

New York, NY

#### Student Intern, Medical Physics

May 2025 - November 2025

- Trained and improved ML network for lung cancer CT deformable image registration
- Wrote MATLAB and Python preprocessing and testing code

### Summer Intern

July 2024 - August 2024

- Wrote C# and Python preprocessing code to prepare data for head/neck cancer CT scan segmentation training

### Hack Club

Shelburne, VT and Remote

#### Hardware Engineering Intern

April 2022 - March 2024

- Assisted dozens of HS students in creating their first PCB through the Onboard PCB Grant Program, offering technical expertise and design reviews
- Designed open-source and documented reference designs for NFC tags and USB hubs
- Designed motor controller board and USB-C Power Delivery power supply unit for Blot, a 2D CNC plotting machine
- Designed mainboard for Sprig, a RP2040-based handheld gaming console

### Mail Team Coordinator and Events

July 2021 - June 2023

- Developed mailing software with an address database to implement USPS Intelligent Mail Barcode and access cheaper commercial pricing
- Helped organized in-person hackathons in NYC, Vermont, and San Francisco

## PROJECTS

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### Photography Portfolio | [GitHub](#)

2024

- Built portfolio website with nextJS, Cloudinary CDN, and mongoDB.

### SAMD21 Corginator | [GitHub](#)

2024

- Designed and built a SAMD21-powered corgi-shaped Arduino

### USB2.0 Type-C Hub | [GitHub](#)

2023

- Designed and built an open source reference design for a four port USB hub

### NXP NTAG I2C NFC Evaluation Board | [GitHub](#)

2023

- Designed an open source reference design for NFC-enabled business cards

## SKILLS, INTERESTS & AWARDS

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- Technical: KiCAD, C, C++, Python, nextJS, HTML/CSS, LaTeX
- Laboratory: Soldering, reflow, and rework equipment
- Awards: Gold President's Volunteer Service Award