

# HUGO HU

✉ [hugo@hugohu.me](mailto: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 June 2025 - Present

- 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 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 three 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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1. Technical: KiCAD, C, C++, Python, nextJS, HTML/CSS, LaTeX
2. Laboratory: Soldering, reflow, and rework equipment
3. Awards: Gold President's Volunteer Service Award (2021)