

# HUGO HU

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## EDUCATION

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### Stuyvesant High School

2026

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

## EXPERIENCE

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### Memorial Sloan Kettering Cancer Center

Summers 2024, 2025

#### Summer Intern, Medical Physics

New York, NY

- Trained and improved ML network for lung cancer CT deformable image registration
- Wrote C#, Python, and Matlab preprocessing code to prepare data for 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)