# HUGO **HU**

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## EDUCATION

**Stuyvesant High School**                                                    2026
- Clubs: Stuyvesant Math Team, Mu Alpha Theta, Spectator Photos, StuyCast

## EXPERIENCE

**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

**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

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)