HUGO **HU**

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EDUCATION

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

EXPERIENCE

Memorial Sloan Kettering Cancer Center   **New York, NY**
Student Intern, Medical Physics   **April 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 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)