

Mark Zbarsky

markzb1483@gmail.com

Staten Island, NY

718-551-6439

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY

GPA: 3.63

Bachelor of Science, Computer Systems Engineering

Graduating: May 2026

Relevant Coursework Completed/in Progress

- Advanced Materials, Metrology, and Equipment for Semiconductor Manufacturing; Algorithms
- Computer Architecture, Networks, and Operating Systems; Embedded Control; Circuits; Data Structures
- Computer Hardware Design; Microprocessor Systems; Machine Learning from Data

Software and Certifications

- Languages: Advanced level of Python, C++/C, Intermediate level of SQL, HTML, CSS, Java
- Software: Advanced level of Microsoft Office, MATLAB, Vivado, LTSpice, CCS

EXPERIENCE AND ACCOMPLISHMENTS

Advanced Technology Group, New York, NY

Engineering/Cybersecurity Intern

May 2025 - August 2025

- Managed networks, security, and technological interface for more than 20 companies of various sizes and structures - including financial firms, law offices, hotels, and restaurants.
- Traveled on-site to clients to investigate or provide service to the network - including both installing and replacing hardware within the server room, as well as working with clients directly to understand and address their issues

DataAnnotation Tech, New York, NY

Prompt Engineer

May 2024 - Current

- Designed complex prompts and maintained conversations with various AI Models to test and improve the responses, looking for edge case failures among various topics, including programming and other academic fields.
- Analyzed and reviewed model responses - often writing up an ideal response myself to be used as training data
- Created self-contained criteria and then rated models on those criteria- documenting their flaws and comparing multiple responses.

Richmond University Medical Center, Staten Island, NY

IT/Biomedical Intern

May 2024 - August 2024

- As part of the Hospital's HelpDesk, provided daily maintenance and troubleshooting to the robust IT infrastructure of over 500 PCs, 500 phones, 100 printers, and medical devices such as vital signs monitors, Giraffe Incubators, electronic hospital beds, and oxygen tubing ensuring quick resolution of technical issues
- Assisted in the planning and setup of a brand new, state-of-the-art Operating Wing with 10 surgical rooms and pre- and post-operation bays. This included the installation of various office devices including a monitoring system for doctors to see the vitals of all patients from a single screen, various medical equipment, and computer servers.

Pi Lambda Phi Fraternity, NYKT Chapter, Troy, NY

Executive Vice President (Responsible for Internal Affairs and Risk Management)

Nov 2024 - Current

- Oversee internal relations and several chairman positions including brotherhood, social, and sports
- Organize and manage a significant portion of the events the house hosts such as mixers with other collegiate organizations and brother-wide outings
- Assess and address risk in the planning, hosting, and aftermath of all activities the house is a part of

Community Service Coordinator

Jan 2024- December 2024

- Put in place a system by which a team of 3-5 brothers assists our local food pantry on a bi-weekly basis
- Organized/initiated additional volunteer opportunities throughout the school year at a nearby food farm, street and park cleanups, our school's career fair, and others increasing chapter volunteer hours by over 200% from the previous year

Polymathic Innovations, LLC, Troy, NY

Student Researcher

Jan 2024 - May 2024

Savonius Wind Turbine Study- Designed and built a vertical-axis wind turbine (VAWT) that is a more cost-efficient and versatile solution for urban areas than traditional turbines

- Developed software in C++ and Python to capture data utilizing various sensors that I installed on the turbine.
- Software published collected data to Excel spreadsheets for analysis, improving the turbine's efficiency and performance by 15%, as well as providing early notifications of any needed maintenance.