Contact

Email:markzb1483@gmail.comWebsite:markzbarsky.mePhone:718-551-6439Location:Staten Island, NY

**EDUCATION** 

### Rensselaer Polytechnic Institute

08.22 - 05.26

B.S. in Computer Systems Engineering — GPA: 3.63

Troy, NY

• Relevant Coursework: Advanced Materials, Metrology, and Equipment for Semiconductor Manufacturing; Computer Architecture, Networks, and Operating Systems; Embedded Control; Machine Learning from Data; Algorithms; Data Structures; Computer Hardware Design; Microprocessor Systems.

#### TECHNICAL SKILLS

- Languages: Python, C/C++, SQL, Java, Verilog, HTML/CSS, Assembly
- Tools & Technologies: Git, MATLAB, Quartus, LTSpice, Code Composer Studio, Microsoft Office

#### EXPERIENCE

### Advanced Technology Group

05.25 - 08.25

Engineering/Cybersecurity Intern

New York, NY

- Managed network infrastructure, security, and technology systems for 20+ diverse clients including financial firms, law offices, hotels, and restaurants.
- Conducted on-site hardware installations and replacements (switches, access points, servers, UPS systems) while ensuring end-to-end connectivity and optimal performance.
- Collaborated directly with client stakeholders to gather requirements, troubleshoot incidents, and implement secure solutions with comprehensive documentation.

DataAnnotation Tech 05.24 - 05.25

Prompt Engineer

New York, NY

- Designed complex prompts and maintained multi-turn conversations with AI models to test responses and identify edge-case failures across programming and academic domains.
- Analyzed model outputs and authored reference responses used as training data and evaluation benchmarks.
- Created evaluation criteria and performance rubrics; documented model flaws, safety issues, and comparative strengths to drive iterative improvements.

# Richmond University Medical Center

05.24 - 08.24

IT/Biomedical Intern

 $Staten\ Island,\ NY$ 

- Maintained hospital IT infrastructure supporting 500+ PCs, 500 phones, 100 printers, and critical medical devices including vital signs
  monitors, incubators, and oxygen systems.
- Supported planning and deployment of a new 10-room surgical wing with integrated patient monitoring systems enabling centralized vitals tracking.
- · Coordinated with clinical staff to minimize downtime during system cutovers and ensure seamless workflow continuity across departments.

# Polymathic Innovations, LLC

01.24 - 05.24

Student Researcher

Troy, NY

- Designed and built a vertical-axis wind turbine (VAWT) for cost-efficient urban deployment compared to traditional horizontal turbines.
- Developed C++ and Python data acquisition software to capture sensor readings and generate automated Excel reports for performance analysis.
- Improved turbine efficiency by 15% through iterative design optimization and implemented predictive maintenance alerts based on sensor trend analysis.

## Leadership & Activities

#### Pi Lambda Phi Fraternity, NYKT Chapter

11.24 - Present

 $Executive\ \ Vice\ President\ (Internal\ Affairs\ \&\ Risk\ Management)$ 

Troy, NY

- Oversee internal relations and chair positions including brotherhood, social, and sports; organize chapter events such as mixers and outings.
- Assess, mitigate, and document operational risks across event planning and execution to ensure safe and compliant chapter activities.

## Pi Lambda Phi Fraternity, NYKT Chapter

01.24 - 12.24

Community Service Coordinator

Troy, NY

- Established rotating volunteer teams of 3-5 members providing bi-weekly support to local food pantry, ensuring consistent community impact.
- Organized additional service opportunities including food farm work, cleanup projects, and career fair support, increasing chapter volunteer hours by 400% year-over-year.