**Professional Summary**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Emerging computer engineer graduate with a passion for problem solving in low and middle level programming languages. I’m currently seeking to apply my skills and experience to an embedded or firmware engineering role.

**Education**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Temple UniversityPhiladelphia, PA**

BS Computer EngineeringAugust 2021 – December 2024

• GPA: 3.97

• Dean’s List, IEEE HKN Honor’s Society

**Experience**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Automation Engineering InternMay 2024 – August 2024**

Ezsoft. IncMalvern, PA

• Programming component-based software for PLCs (Programmable Logic Controller) for applications in industrial food & beverage and pharmaceuticals to ISA-88 and ISA-95 standards

• Developing VBA applications for on-site DDE operations and internal Python tools for high volume code changes and in-program error checking

• Performing on-site visits to investigate high pressure system failures and supervise new hardware installations and software integration

**Research AssistantMarch 2024 – Current**

Dr. Samuel Rosen’s BDC Research LabPhiladelphia, PA

• Utilizing Pandas, Beautiful Soup, Pyppeteer, Selenium, and Requests Python libraries to scrape Schedule of Investment tables from the SEC

• Helping to manage RA teams by implementing Python code standards based on PEP8

• Successfully implemented novel approach using cell element sizes to improve deliverable time by 400% from 24+ hours to less than 6 hours

**Research AssistantMay 2023 – August 2023**

Dr. Jim Napolitano’s Nuclear Physics Research LabPhiladelphia, PA

• Collaborating with physicists to reduce error rate to 0.042 % for a portion of the MOLLER (Measurement Of Lepton Lepton Elastic Reaction) experiment

• Developing Python scripts to write time and wavelength spectrums for emulating deadtime

• Debugging WaveDump, an open-source data collection software written in C, to automate data entry from FPGA digitizers directly to external disks

**Projects**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Breast Cancer Digital Pathology System** – Working with machine learning specialists to design novel Machine Learning systems for breast cancer diagnosis ([GitHub](https://github.com/Leo-Berman/Machine-Learning-Applications-In-Digital-Pathology))

**Upcycling Treadmill to Web-Controlled Walk Pad** – Converting treadmill to low profile walk pad controlled via web interface ([GitHub](https://github.com/Leo-Berman/Treadmill-To-Walking-Pad))

**Languages & Technologies**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Languages:** C/C++, Assembly (AVR, MIPS), Python, VBA, Arduino, Bash

**Technologies:** Linux, Atmel, FPGA (Xilinx), Git, AutoCAD, Jira, AWS ([Cloud Practitioner Certified](https://www.credly.com/badges/54f952f5-0419-4294-86ac-46d79dea2adc/public_url))

**Mentorships**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Science Fair Judge:** The Langley School | McLean Virginia **Mathematics & Physics Tutor:** Algebra | Calculus | Statistics | Classical Physics