



# Leo Berman

Computer Engineer

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## Professional Summary

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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

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### Temple University

Philadelphia, PA

BS Computer Engineering

August 2021 – December 2024

- GPA: 3.97
- Dean's List, IEEE HKN Honor's Society

## Experience

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### Automation Engineering Intern

May 2024 – August 2024

Ezsoft. Inc

Malvern, 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 Assistant

March 2024 – Current

Dr. Samuel Rosen's BDC Research Lab

Philadelphia, 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 Assistant

May 2023 – August 2023

Dr. Jim Napolitano's Nuclear Physics Research Lab

Philadelphia, 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

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**Breast Cancer Digital Pathology System** – Working with machine learning specialists to design novel Machine Learning systems for breast cancer diagnosis ([GitHub](#))

**Upcycling Treadmill to Web-Controlled Walk Pad** – Converting treadmill to low profile walk pad controlled via web interface ([GitHub](#))

## Languages & Technologies

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

**Technologies:** Linux, Atmel, FPGA (Xilinx), Git, AutoCAD, Jira, AWS ([Cloud Practitioner Certified](#))

## Mentorships

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**Science Fair Judge:** The Langley School | McLean Virginia

**Mathematics & Physics Tutor:** Algebra | Calculus | Statistics | Classical Physics