Steven Caro

Waterloo, Ontario

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SUMMARY

Self-motivated, disciplined, and eager to learn new skills. Excited to apply my knowledge of Machine Learning to real-world problems. I have a strong background in Electrical Engineering and Computer Science, with experience in software development, controls engineering, and power distribution analysis. I am passionate about robotics and automation, and I am looking for opportunities to contribute to innovative projects in these fields.

EXPERIENCE

Graduate Researcher

Autonomous Systems Lab, Vector Institute & University of Waterloo
01/2024 - 12/2025, Waterloo, Ontario

- Optimize policies for autonomous robots using PyTorch and state-of-the-art Machine Learning (ML) techniques
- Coupling ML with Computer Vision to develop efficient manipulation policies for robotics

Software Developer

Human Systems Lab, University of Windsor
05/2020 - 08/2023, Windsor, Ontario

- Used Python to create diagnostic tests used in conjunction with an eye-tracking device
- Used the data accumulated from the eye-tracking device to generate a report that optometrists use to diagnose common optical diseases

Electrical Engineering Intern

Hiram Walker & Sons Ltd
09/2022 - 12/2022, Windsor, Ontario

- Completed electrical designs for fire safety system
- Programmed PLCs using RSLogix 5000
- Assisted in programming logic for quality assurance on bottle lines and defect detection using x-ray & computer vision
- Programmed HMIs using FactoryTalk View Studio ME/Site
- Used AutoCAD for electrical drawing updates

Controls Engineering Co-op

Onyx Engineering Inc
01/2022 - 04/2022, Windsor, Ontario

- Implemented circuit design modifications using AutoCAD Electrical
- Trained in SCADA & HMI Industrial Automation
- Used Visual Basic, macros, and pivot tables to import and analyze daily website traffic data

Power Distribution Engineering Analyst

Entegrus Powerlines Inc
05/2021 - 08/2021, Chatham, Ontario

- Performed load flow and voltage drop studies to determine acceptable transformer and conductor sizes for new projects
- Assisted in creating and balancing the 2022 budget by performing cost-estimation on proposed projects, and prioritizing the projects by metrics such as customer impact, safety, and reliability

EDUCATION

University of Waterloo
MASc - Electrical and Computer Engineering
GPA: 3.9/4.0

University of Windsor
BASc Honours Electrical and Computer Engineering
GPA: 4.0/4.0

SKILLS

Python   PyTorch   Excel   C++
MicroPython   MATLAB   Raspberry Pi
Fusion 360   RSLogix
AutoCAD Electrical   SCADA   LTSpice

PROJECTS

Created a Biomimetic Robotic Hand *01/2023 - 08/2023* Engineering Capstone project in which a wearable robotic hand mimics the actions of the user's hand

Team Leader - Singam Labs Coding Club *05/2021 - 08/2021* Led group of classmates in a python coding club by walking through my visual cognitive-testing software to demonstrate different programming techniques

Constructed a full-size Arcade Machine *06/2020 - 09/2020* Complete bottoms-up build, including cabinetry and electronics

ACHIEVEMENTS

- NSERC CGSM Research Grant
- Engineering Excellence Master's Fellowship (University of Waterloo)
- President's Entrance Award (University of Windsor)
- Outstanding Scholar Award (University of Windsor)