

# ELORIE BERNARD-LACROIX

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Portfolio: [elorie-bernard-lacroix](#) · LinkedIn: [elorie-bernard-lacroix](#) · Website: [elorie-bernard-lacroix.github.io](#)

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## EDUCATION

### University of Toronto

Sep 2023 – May 2027

Bachelor of Applied Science & Engineering (B.A.Sc.) in Engineering Science + PEY

Toronto, ON

- Relevant Courses: Introduction to Computer Programming (Python), Engineering Mathematics & Computation (MATLAB), Computer Algorithms & Data Structures (C), Digital and Computer Systems (System Verilog, RISC-V)

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## SKILLS

- Languages: Bilingual (French, English)
- Programming Languages: Java, Python, C, MATLAB
- Web development: HTML/CSS, Javascript
- Data & ML: PowerBI, Pandas, NumPy, Jupyter, Anaconda/Conda (IBM & Kaggle)
- Enterprise IT: networks (VLAN, Cisco VoIP), automation (PowerShell), hardware troubleshooting
- Robotics: Computer-aided design (Onshape, Fusion 360, AutoCAD), ROS, Ubuntu, control systems, computer vision (e.g. camera calibration)

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## PROFESSIONAL EXPERIENCE

### Treasury Board Secretariat of the Ontario Public Service

May 2023 – Aug 2023

IT Auditing Intern

Toronto, ON

- Designed presentations in Power BI for a team of over 10 people.
- Compiled over 50 extracts of research with another intern on I&IT Talent management in interactive Excel sheets with different views, including pivot tables and filtration options to assist the team in an upcoming audit.
- Used standards provided by ISO, COBIT, NIST, and GO-ITS to supplement research and guide audit recommendations. Worked in an Agile environment for an iterative cybersecurity audit.
- Recorded meeting notes with another intern for client interviews, managed documents, proof-read the audit report and performed research to assist in a 3-month audit of End-User IT asset Lifecycle Management

### Canada's Wonderland

April 2022 – Aug 2022

IT Technician

Vaughan, ON

- Performed upgrades to Symphony 2.0 and deployed over 300 POS systems in the park, including their respective peripherals (scanners, printers, cameras) and required peripheral drivers, to ensure a fully operational cash-less park.
- Troubleshooted networking, hardware, and software issues for employees in the office.
- Configured Cisco network phones and Cisco Finesse (queues shared among phones) to allow for more effective online customer service support.

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## COMMUNITY EXPERIENCE

### University of Toronto Robotics Association

Sept 2023 - Present

Software Member of the Humanoid Robosoccer Club

Toronto, ON

- Using Ubuntu and ROS to control a humanoid soccer-playing robot. Currently working on camera calibration.

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## PROJECTS

### Predicting Failure Load MATLAB

[bridge-failure-load-calculator](#)

Calculates the factor of safety for various bridge designs given a load of 400 N.

### Seam-carving program C, dynamic programming

[ESC190-Project-2](#)

Iteratively removes parts of an image that are the least important, to narrow the image without distorting it.

### Synonym Detector Python, Cosine similarity

[ESC180\\_Project3](#)

Identifies the synonym of a given word with a 70% accuracy in linear time.