

## EDUCATION

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- **Queens University** Kingston, ON  
*Mechatronics and Robotics Engineering, BASc; GPA: 3.710* *Sept. 2021 – May. 2025*

## PROJECTS

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- **Code Vulnerability Detection:** A Programming Language Processing project using transformer models and Machine Learning to detect vulnerabilities in code written in C or PHP.
- **Autonomous CO<sub>2</sub> Monitoring System:** Created and programmed a rover that will map a room with LiDAR in 2D and create a heat map of the CO<sub>2</sub> data to give an employer an idea of the indoor air quality. (ROS, Arduino, Python, PID Controller)
- **Worksheet Generator:** Automated the process of making worksheets using a Python script and LaTeX to generate word problems with variable parameters and a solution sheet on the back.
- **Ambient Lighting:** Created a script that would sample the median colour on a desktop computer and send the hex code over an API to LED strips to make the room fit the theme of the display.
- **Camera Unloader:** Created an autonomous photo manager for my Canon camera. Once the SD card is inserted, it will grab the photos, organize them by file type, and wrap them in a dated folder to match my personal organization structure.

## EXPERIENCE

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- **QMIND** Kingston, ON  
*Innovation Design Team Member* *Sept 2022 - Apr 2023*
  - **Sklearn:** Sklearn (scikit-learn) is a Python library that provides a wide range of unsupervised and supervised machine learning algorithms. It is also one of the most used machine learning libraries and is built on top of SciPy.
  - **Data Parsing:** Built programs in Python which parsed a dataset of code files. The output included the file path, unique ID and tag for the training set.
  - **Debugging:** Fixed problems regarding data fitting, model issues, and supervised training using strategies such as modularization, collaborative efforts, and reading documentation.
- **Freelance** Toronto, Ontario  
*Marketing Consultant* *Mar 2020 - Present*
  - **Websites:** Built static websites using HTML, CSS, JavaScript and WordPress.
  - **Photography:** Personal headshots, product shots, corporate headshots, album covers, and industrial photography.
  - **Graphic Design:** Created logos, branding schemes, social media posts, mailing list templates, and document templates.
  - **Social Media Management:** Managed and automated social media pages, created content, and increased online client engagement.
  - **Client Outreach:** Automated mailing lists using Python and MailChimp.
- **Physioactive Orthopaedic and Sports Medicine Clinic** Thornhill, Ontario  
*Office Administrator* *Summer 2019 and 2020*
  - **Customer Service:** Scheduling clients, booking appointments, ensuring customer satisfaction.
  - **Digitization:** Converted physical medical files into digital files and created a digital COVID pre-screening forum.

## SKILLS

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- **Programming Languages:** Python, MatLab, C, Arduino, HTML, CSS, JS, VHDL
- **Technologies:** SolidWorks, MatLab, ROS, Linux, Git, MS Office, Raspberry Pi, LTSpice, Adobe Suite
- **Physical Prototyping:** Soldering, Multimeter, Oscilloscope Probing, 3D Printing, Power tools, PC Assembly
- **Soft Skills:** Graphic Design, Video Editing, Customer Service

## AWARDS

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- **1<sup>st</sup> Year - Deans List:** Maintained a GPA greater than 3.70 for the duration of the school year.
- **DECA International Competitor:** Qualified to compete in the International Career Development Conference in Nashville on behalf of Canada.
- **Queen's University Excellence Scholarship:** Awarded on the basis of academic excellence to students entering the first year of a direct-entry undergraduate degree program at Queen's University.

## REFERENCES

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- References are available upon request