

ANDREA PEREIRA

andreanicolepereira@gmail.com | <https://github.com/fenfow> | <https://www.linkedin.com/in/andrea-pereira-49522922b>

EDUCATION

Queen's University | Kingston, ON

Expected Graduation, 2025

Bachelors degree in Applied Science and Engineering

Course Work: Fundamentals of Information's Structures, Introduction to Data Science, Software Development Methodology, Introduction to Object Oriented Programming, Engineering Design and Practice, Discrete Mathematics with Computer Engineering Applications, Digital Systems, Computer Architecture, Ordinary Differential Equations, Probability and Random Processes, Microprocessor Interfacing and Embedded Systems, Economic and Business Practice, Introduction to Macroeconomics

SKILLS & TECHNICAL TOOLS

Languages: Python, Java, C, HTML, C++

Skills: SolidWorks, AutoCAD, MATLAB, Quartus II, Arduino, Nios II, GIT Hub, Jupyter Notebook, FPGAs, Figma, Word, Excel, Outlook, Power Point, Visual Studios, CLion, Xcode, Android Studios, Qt Creator, GIT Lab, Canva, Eclipse, Anaconda, MySQL, Agile

EXPERIENCE

QWASE | Kingston, ON

Oct. 2023- April 2024

- The Marketing Coordinator for the Queens Women in Applied Science and Engineering conference
- Collaborates with other coordinators to create promotional materials, including social media content, email campaigns, speakers and sponsorship packages
- Developed and maintained the conference website, ensuring up-to-date information and user-friendly experience for potential attendees
- Conducted market research to identify trends and opportunities for conference growth, providing valuable insights for strategic decision-making

Queen's BioMechatronics Team | Kingston, ON

Oct. 2022- April 2023

- Was part of the software subsection, specifically data analysis
- Goal is to design and construct a load-bearing leg exoskeletons for firefighters to lighten their mechanical load and improve agility

Engineering Society Communication Team | Kingston, ON

Sept. 2021- April 2022

- Was a graphic design team member
- Worked with platforms such as Canva and Photoshop to create posters to inform students about upcoming events and important information

Queen's Biomedical Innovation Team | Kingston, ON

Oct. 2021- April 2022

- Was part of the software subsection
- Started the creation of an app that outputs the results obtained from thermography sensors meant to detect breast cancer using Figma and Qt

PROJECTS

Accelerometer Classifier App | Python, Phyphox

Jan. 2024- March 2024

- Collaborated on a team to develop a desktop app processing accelerometer data from CSV files, outputting labeled data as 'walking' or 'jumping' activities
- Was responsible for visualizing the dataset samples to ensure effective representation of 'walking' and 'jumping' classes
- Was responsible for developing and training the model using logistic regression, utilizing the preprocessed accelerometer data to achieve accurate classification

Food Expiration App Tracker | Android Studios, Qt Creator

Jan. 2022- May 2022

- Worked in a group to create an application that tracks the expiration dates of food
- Was responsible for the GUI sketch and implementing the OCR system to scan expiration dates and upload this data to the application

REFERENCES

Available on request