

Annie Phan

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Education

McMaster University

Bachelor of Computer Engineering, Minor in Mathematics (GPA: 3.94)

Hamilton, ON

Sept 2022 – April 2026

Experience

Web and Communications Assistant

April 2023 – August 2023

Department of Engineering, McMaster University

Hamilton, ON

- Set the strategic vision for the web-developer team and streamlined the project management of McMaster Engineering's new landing website increasing automation and production by 30% (HTML & CSS).
- Programmed and designed 40+ website pages and focused on QA systems to ensure a smooth international launch.
- Contributed to internal communications projects, including e-newsletters, print publications, and video production, utilizing software and programming knowledge to create graphics, photos, and video assets.
- Assisted program/department staff in planning, coordinating, and implementing various communication projects.

Undergraduate Research Assistant

April 2022 – Aug 2022

David Braley Health Science Centre, McMaster University

Hamilton, ON

- Collaborated with the research team of 5+ members for chart reviews, data extraction, quantitative data analyses and prepared data finding summaries under the supervision of Dr. Dee Mangin for the Ontario COVID@Home Monitoring Program.
- Analyzed and maintained data through NVivo, SPSS, Microsoft Office and REDCap software programs.
- Synthesized research knowledge and developed plain-language research summaries for research projects following methodologies.
- Conducted interviews and focus groups then coded and cleaned qualitative linguistic data used to improve McMaster's Pilot Research Project.

Teaching Assistant

Sept 2018 – April 2023

Kumon Canada

Mississauga, ON

- Collaborated with the head instructor to generate reports and lesson plans through Kumon database software and Excel for 60+ students.
- Utilized Kumon grade book platform to service 30+ students daily for tutoring.
- Troubleshoot upkeep of database and maintain classroom equipment, and student worksheets.

Projects

Remote Control Walking Cane Locator | *Circuits, Arduino, Autodesk Inventor*

Nov 2022 – Dec 2022

- Coded in C/C++, soldered circuits, designed and created engineering drawings using Autodesk Inventor for the attachment holding the circuit components.
- Implemented circuits and programmed Arduino to create a remote control walking cane locator system for visually impaired individuals.
- Conducted usability tests and made iterative improvements to enhance device performance and user experience.
- Created documentation for the program to ensure ease of use and maintainability.

System for Recycling Containers | *Autodesk Inventor, 3D Printing*

Jan 2023 – Feb 2023

- Designed a system of dynamic simulation parts and Python code to recycle containers.
- Created a code model to classify containers using data from a virtual environment (Q-labs) and transfer them to bins depending on their level of contamination in under 30 seconds.
- Led a team of 4 by creating Gantt charts, organizing team meetings, and delivering weekly progress reports.

Technical Skills

Languages: Python, Java, JavaScript, C/C++, HTML/CSS, R, SQL

Frameworks: ReactJS

Developer Tools: Git, VS Code, Visual Studio, PyCharm

Tools/Software: Microsoft Office (Word, Excel, PowerPoint, SharePoint), Adobe Photoshop, AutoCAD Software, MATLAB, Google Analytics