

Arji Ahamed Thaiyib

+1 (647) 786-7473 | arji.thaiyib@gmail.com | [website](#) | [linkedin.com/in/arjithaiyib](https://www.linkedin.com/in/arjithaiyib) | github.com/arjithaiyib

EDUCATION

McMaster University Bachelor of Computer Engineering (Co-op) <ul style="list-style-type: none">GPA: 3.8/4.0McMaster Honour Award (2020) & Dean's Honour Role (2020-2022)	Sept 2020 – May 2024
--	----------------------

PROJECTS

Stylised Personal Site <i>HTML, CSS</i> Live Website Code <ul style="list-style-type: none">Designed a responsive, professional personal site with an elegant user interface, including a contact me feature using HTML and CSS. The website utilizes CSS Grid to ensure functionality and ease of access across different platforms and screen sizes.Utilized CSS grid in addition to its various properties, including grid template, columns, and rows to incorporate a modern horizontal media scroller with scroll snapping functionality. Achieved a 97% performance rating using Google Lighthouse.	December 2022
Spacial Mapping System <i>Python, C, Keil, MSP 430 Microcontroller</i> Project Demo <ul style="list-style-type: none">Created a spacial mapping system using a time-of-flight sensor and stepper motor to acquire information about the device's surrounding environment and allow for communication between the ToF sensor and MCU via I2C serial communication protocol.Data collection algorithm was programmed using Keil software in C to perform sampling of distance coordinates, resulting in a 90% image reconstruction accuracy rate of the environment.Measurement data is collected using UART communication and then processed using a method in Python, which makes use of the Open 3D library to visualize the measurements as coordinates in a 3D interactive environment.	March - April 2022
Pacemaker <i>Python, PyQt5, MATLAB Simulink</i> Code <ul style="list-style-type: none">As a team of 5, developed a safety-critical, real-time, adaptive pacemaker system which can take user inputs and pace the heart accordingly in varying conditions.Programmed a GUI using PyQt5, which allows for user inputs and viewing the devices' current status through UART communication using Python.Implemented eight rate-adaptive pacing modes for varying levels of activity by developing the necessary requirements table and Stateflow diagrams using MATLAB Simulink.	November - December 2022
System for Sorting & Recycling Containers <i>Python, Raspberry Pi, Quanser Labs</i> Project Demo <ul style="list-style-type: none">Programmed a system that can efficiently sort recyclables and transfer them to their corresponding bins.Created an algorithm using Python to classify containers using data from a virtual environment (Quanser Interactive Labs) and transfer them to bins depending on their level of contamination in under 30 seconds.Led a team of four by organizing team meetings, creating Gantt charts, and delivering weekly progress reports as the project manager.	January - March 2021

EXPERIENCE & LEADERSHIP

Google Developer Student Club <i>Workshop and Team Member</i> <ul style="list-style-type: none">Led team recruitment and event coordination alongside other Google Developer Student Clubs in North America.Assisted in running Coding and Web Development seminars for Java, HTML and CSS to 20+ beginner students interested in learning Programming and Front-End Web Development.Co-hosted workshops involved in teaching the basics of Git and Github to 100+ students.	Hamilton, ON Sept 2022 - Present
---	-------------------------------------

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, MATLAB, HTML/CSS
Technologies & Tools: Git, Github, Visual Studio, Markdown, LTSpice, Waveforms, Simulink, Autodesk Inventor, Raspberry Pi, Analog Discovery 2, Keil uVersion 5, Quartus II, MSP 430 Microcontroller, Quanser
Other: Agile Work Methodology, Scrum Framework