

Pesara Amarasekera

519-994-3218 | amarasep@mcmaster.ca | [Linkedin.com/in/pesaraa](https://www.linkedin.com/in/pesaraa) | [Github.com/PradCoder](https://github.com/PradCoder)

HIGHLIGHTS OF QUALIFICATIONS

- Implemented a programming language using **C** to understand the fundamentals of languages
- Strong time-management skills gained through participation in academic and extracurricular activities
- Used **Design thinking** to develop engineering solutions for aiding differently abled individuals
- Extensively developed analytical and problem-solving skills due to assignments and extracurriculars

EDUCATION

Bachelor of Engineering, Software Engineering

Expected Completion, April 2023

McMaster University, Hamilton ON

- Entrance Scholarship recipient and in Dean's Honour List For 3.6 GPA for Year 1 Academics

EXPERIENCE

Computer Assistant Co-op

July 2017

[Extreme PC](#), Guelph ON

- Assisted Supervisor with building systems that used **AMD** and **Intel** architectures
- Updated the company's database of components manually using **MS Excel**
- Used custom **HTML** tools built for the company to add more component information to the company's website
- Installed software (OS and drivers) and benchmarked systems

PROJECTS

[Lispy](#) | **Side Project**

June 2018 - present

Hand Prosthetic | Grade A+

Feb - April 2019

- Extensively made use of **C** and the MPC library for constructing a programming language
- Implemented various language features that are particular to **Functional Programming** languages
- Currently working out some more features to add from the exercises in the book used and beyond
- Worked in a group of 3 to design a Prosthetic that mimicked a pinching motion
- Designed and optimized a simple **Python** program to find gears for a desired gear ratio
- Made a technical report that explained our design and created an assembly drawing using **AutoCAD**

SKILLS

- Proficient in **Java**, **Python**, **JavaScript**, **HTML**, **CSS**, **Bash** and **C/C++**
- Familiar with **Haskell**, **Elm**, **NASM** and **Vim**
- Familiar with **NodeJS**, **Express**, **jQuery** and **Bootstrap** frameworks
- Enjoys mathematics and pursuing a minor in this field for application in research

EXTRACURRICULAR ACTIVITIES

[McMaster Outreach](#) | **Volunteer**

Sept 2018- Present

- E-mentoring students and teaching basic programming skills using the **Elm** language

MCP | Member

Sept 2018 - Present

- Member of the McMaster Chapter of ACM-ICPC