

SKYLER RAJASINGHAM

Biomedical and Electrical Engineering
Co-op Student (Level 3)

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HIGHLIGHTS OF QUALIFICATIONS

- Proficient with software development in Python, Verilog, MATLAB/Simulink, and C/C++ through design projects and past courses
- Experience and strong understanding of analog/digital circuits and microcontrollers, through clubs, design projects, and university courses

EDUCATION

MCMASTER UNIVERSITY, HAMILTON ON

SEPT 2020 – EXPECTED 2025

B.Eng Electrical and Biomedical Engineering (Co-op) – GPA 3.9

Relevant Courses: *Circuits and Systems, Principles of Programming, Data Structures and Algorithms, Logic Design, Microprocessor Systems Project, Electronic Devices and Circuits*

- Completed numerous hands-on labs and assignments applying knowledge of data structures, algorithms and logic design using **C/C++**, **Python**, and **HDL**
- Experience with designing and analyzing **transistor** based circuits
- Strong understanding of **biological signals** and **systems** and **anatomy**

EXPERIENCE

QUALITY ASSURANCE INTERN (STERIMAX)

MAY – AUG 2022

- Designed experimental testing and developed protocols and standard operating procedures for new impact recording devices being implemented into supply chain

DESIGN PROJECTS

SEPT – APR 2020

- Developed strong critical thinking, collaboration, problem-solving, and communication skills while working within different groups for numerous biomedical engineering design projects
- Utilized **CAD**, **Python**, **C++**, **Arduino**, Raspberry Pi, and different types of sensors extensively during these design projects

EXTRA CURRICULARS

MED-T (CLUB)

SEPT 2022 – PRESENT

- Designing and prototyping a low-cost, 3D printed, EMG controlled transradial prosthesis.
- Involved in drafting microcontroller schematics, PCB design, and control of actuators and sensors in the prosthesis.

EcoCAR (CLUB)

SEPT 2021 – PRESENT

- Schematized, constructed, and tested, a fuse box for implementation into a vehicle
- Currently working within the CAVs subteam learning about the software and hardware involved with the autonomous systems of the vehicle

DSC SOLUTIONS INCUBATOR (CLUB)

JAN – MAR 2021

- Strengthened teamwork, communication, and problem-solving skills while leading a team of business analysts, developers, and designers to create a new e-learning platform

MCMASTER DESIGN LEAGUE (COMPETITION)

FEB 2021

- Improved time management, problem-solving, and collaboration skills by designing, modelling (using **CAD**) and presenting a comfortable and low-cost interior for a hyperloop train in a 3-day time period

SKILLS

- Experienced with Python and C/C++
- Experience with Autodesk Inventor and Fusion 360
- Soldering, stripping, and crimping
- HDL programming and Logic design
- Basic skills with MATLAB/Simulink
- Circuit design, construction, and testing