

Rebecca Schmelzer

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Education

MCMASTER UNIVERSITY, SCHOOL OF ENGINEERING

Bachelor's of Engineering in Software Engineering

HAMILTON, ON

Expected May 2023

- GPA: 3.5/4.0
 - Honors: Fall 2019 and Winter 2020 Dean's List

Technical Skills/Projects

LANGUAGES:

Java | Python | JavaScript | HTML/CSS | AutoCAD

SELECTED PROJECTS:

COVID-19 TRACKING PLATFORM

McMaster Engineering Competition

November 2020

- Platform that utilizes data taken from multiple countries to output figures such as active cases, total cases, new cases, total recovered, total deaths and calculates mortality rate.
- Built with Python and Tkinter to create an easy-to-use interface, creating drop-down and search bar menus as well as colorful labels to output the data clearly.

CIPHER & CRYPTOGRAPHY TUTORIAL

Code Week, Kurius

March 2021

- Creating and recording a tutorial in Java for students attending a week of coding workshops. Built the tutorial teaching shift/Caesar & Playfair ciphers. Students learn development of methods to properly encode/decode these types of ciphers.

AUTOMATED HAND PROSTHESIS

McMaster Engineering Design & Graphics

April 2020

- Using AutoCAD, designed and built a forefinger-thumb portion of the full-right-hand prosthesis.
- Given specifications on design & a motor with a given rotational speed, formally designed an index finger, thumb and an apparatus that would allow the tips to contact each other within a volume of space.

Experience

TEDXMCMASTERU

HAMILTON, ON

Volunteer Director

December 2019

- Interviewed and recruited volunteers for all departments for the event.
- Organized shift schedules and directed training days for volunteers to get accustomed to their jobs.

BAYCREST HEALTH SCIENCES

TORONTO, ON

Youth Council Member

August 2018 – August 2019

- Interviewed and recruited volunteers for all departments of the hospital & long-term care facility.
- Directed outreach events for youth volunteers to introduce supervisors & provide shadowing opportunities with doctors, nurses & more healthcare staff.