**Hussein El Mokdad**

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<https://github.com/koookee>

**EDUCATION**

**Bachelor of Engineering, Software Engineering, Co-op option**

Carleton University, Ottawa, ON

* Third year standing, CGPA: 11.14/12.0 (A)
* Murdoch Maxwell MacOdrum Scholarship
* Expected graduation: April/2024
* Study range: September 2019 – April 2024

**AVAILABILITY**

Available for 12 months beginning January 2022

**RELEVANT SKILLS, EXPERIENCES AND ACCOMPLISHMENTS**

**Technical Skills**

* Built a quote generator website using HTML, CSS, JavaScript, and React that displays random

quotes received from an API and lets the user share them on Twitter

* Created a game in C# that is similar in functionality to “Flappy Bird” but has additional game

mechanics using Unity’s game engine

* Programmed an image filter using Python that allows the user to select an image file, apply the

desired filter and save the final image.

* Implemented Python with the RaspberryPi to create circuits with speed adjustable rotating motors, timed LEDs, an LCD that displays the status of a program, and a buzzer with various

frequencies

**Communication Skills**

* Lead a team of 4 (including myself) and thoroughly communicated to team members the design

procedure of an image manipulation program in Python

* Documented the Python image filter program using a “ReadMe” file which provided users with

instructions on how to use the program and additional resources in case any questions arise.

* Aided in the writing of a progress report which described the usage and application of electronic

components such as a buzzer, oscilloscope, LCDs and LEDS, H bridge, stepper motor, DC motor,

etc.

* Fluent in English and Arabic: oral, written, reading

**APPLIED PROJECTS**

**Team leader/Programmer Winter 2020**

Image filter project

* Brainstormed the program’s structure with team members and decided on the most efficient way of tackling the project objective
* Delegated the workload equally among team members and agreed on a means of communication for all team members to stay in touch should any issues arise
* Tested the program rigorously using various techniques such as test functions with expected values and actual values to ensure the code did not contain any hidden bugs
* Documented the program’s functionality and user instructions in a “ReadMe” file to make the process of using the program easier for non-technical users
* Assisted and gave programming specific advice to team members facing issues with writing some of the program’s functions

**Team member/Programmer Winter 2020**

RaspberryPi project

* Assembled the circuit which connected the DC motor, LCD, jumper wires, and button on the breadboard to the RaspeberryPi
* Wrote the Python script that managed the DC motor’s rotation speed and direction, and displayed the information on the LCD
* Discussed the findings of the project in the report conclusion with all team members contributing to the writing of the report