Symoom Saad

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One day it will happen :(• https://github.com/PSYmoom

Skills

- **Languages:** Assembly, C, C++, CSS, Go, HTML, Java, JavaScript, Prolog, Python, Scheme
- **Software:** AutoCAD, Fusion 360, Inkscape, MATLAB, Multisim, Quartus II
- **Hardware:** Altera DE2-115 board, Arduino UNO, Raspberry Pi
- **Others:** 3D Printing, Android Studios, Firebase, Git, Laser Cutting, LaTeX

Projects

Interesting Yet Informative Title — **Personal Project**
JavaScript — *June 2020 – August 2020*

- Developed an app using Discord.js to allow a Discord group's members to seamlessly start and stop a multiplayer server remotely
- Implemented features using a promised based system to efficiently handle the asynchronous communication
- Utilized Discord roles to only allow specific people to have to access the server's admin commands
- Implemented a feature to allow members to view the current multiplayer server population remotely

Package Pickup Scheduler — **hack:now**
Android Studios, Firestore — *April 2020 – April 2020*

- Developed an app using Android Studios to help maintain social distancing in apartment complexes during COVID-19 by allocating different package pickup times for the tenants
- Designed a UI for entering the names of the mail/package recipients
- Implemented Firestore to store and retrieve email addresses of the tenants
- Utilized a Java package which constructs and sends an automated email to relay the pickup times

Environment Data Logging Vehicle — **Personal Project**
Raspberry Pi, Python — *April 2019 – September 2019*

- Built a vehicle with Raspberry Pi in Python which can be controlled using a phone and can display video feed and sensor values on a local network
- Implemented the BlueDot application to allow users to precisely control the speed and steering of the vehicle up to 10 meters away using their Android phones via Bluetooth
- Utilized the http.server class to help locally host a web page to display a video feed and sensor values in real-time
- Programmed the Pi to retrieve and log data during its drive and then plot the various data sets against time for ease of data analysis
- Utilized an ESC to accurately control the speed of a brushless DC motor

Education

BASc in Electrical Engineering /BSc in Computing Technology — **University of Ottawa**
Ottawa, ON — *2018 – 2023*

- Dean's Merit scholarship
- Admission scholarship

High School Diploma — **Lisgar Collegiate Institute**
Ottawa, ON — *2015 – 2018*

- Grade 12 Physics scholarship