Aiman **Hussaini**

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Education

Bachelor of Engineering, Computer Engineering

Expected Graduation: April 2022

Ryerson University, Toronto

- *Relevant Courses*: Algorithms and Data Structures; Object Oriented Analysis and Design; Digital Systems
- *Awards*: Dean's List Recipient (2019 - 2020)

Projects

Mars Rover

With Ryerson Rams Robotics

Platforms Used: Python, JavaScript, Linux, Arduino

March 2020 - Present

- Researched and developed autonomous path-finding algorithms in Python to enable self driving and concurrent navigation functions
- Designed and deployed real-time overhead mapping and simulated radiation visualization using sensor data and JavaScript
- Integrated camera tag detection software with intelligent driving system to sequentially seek and analyze location markers

Note Taking App (Name TBD)

Platforms Used: Dart (Flutter), SQL

In Progress

- Developed a note taking application using the Flutter SDK and SQLite for database management
- Created a robust backend for various types of customizable notes using Object Oriented Programming in Dart
- Currently implementing more features, including to-do lists, calendar integration, reminders and cloud backups

Portfolio Website

Platforms Used: JavaScript (React), HTML, CSS (Bootstrap Framework)

September 2020

- Created a responsive website to showcase my previous and current projects using Bootstrap and React
- Implemented custom JavaScript components to display information and dynamically adapt to different screen sizes
- Used *SendGrid* API to handle email delivery and libraries such as *Router* to navigate between pages and *Spring* for animations

Extracurriculars and Achievements

Ryerson Rams Robotics

Autonomous Systems and GPS Team Lead

Present

- Lead a team of 5 - 10 members focused on developing autonomous rover functions and GPS tracking
- Delegated tasks to different team members and guided them in order to meet stringent criteria
- Collaborated with other team leaders to connect autonomous functions with Base Station GUI and obstacle detection

Reverse Engineering Design Competition, 3rd Place

Team Leader

November 2018

- Conceptualized a white cane for the visually impaired, outfitted with a proximity sensor and vibration motor for feedback
- Managed and guided a team of 11 peers by allocating work, coordinating efforts, proposing ideas and making final decisions, as well as initiating communication between members and professors

Skills

Programming Languages: *Java, C, Python, Dart (Flutter), JavaScript, Arduino, VHDL*

CAD and Design: *Eagle, Quartus II*

Others: *HTML, CSS, Microsoft Word, PowerPoint, Excel*