GURMAN BRAR

Candidate for BASc in Biomedical Engineering

@ g9brar@edu.uwaterloo.ca | gurmanbrar.com | www.linkedin.com/in/gurman-brar-2866b4193/ | https://github.com/Gurmie12

EXPERIENCE

Junior Auto Mechanic

North-Eastern Trucking

June 2018 – August 2019 | Stoney-Creek, Ontario

- Repair and maintenance of Commercial semi-trucks. Repairing engines, replacing tires and fixing smaller components of trailers. Working along side a team of mechanics to problem solve various solutions to mechanical and electrical problems within semi-trucks.
- Experience with various work-shop tools and mechanical techniques. Experience with leadership and communication within the workplace. Working along side a team in problem solving roles.

Hemodialysis Clinic Volunteer

St. Josephs Hospital

June 2017 – June 2018 | Hamilton, Ontario

- Organizing patient schedules and monitoring waiting room, informing patients what time they are scheduled. Assisting them in moving to their clinical chairs. Worked in a team setting, alongside the hemodialysis nurses and hospital staff, communicating patient statuses and wait times.

Campaign Volunteer

Ontario PC Party

April 2018 - July 2018 | Stoney-Creek, Ontario

- Managing a group of volunteers with canvassing door to door in order to inform the general public of our MP's goals in the upcoming election. taking diagnostics based on public feedback. Playing the role as a team leader and providing means of communication within my team by organizing different tasks and roles and distributing them.

Co-Founder / CEO

Helmi-Corp

December 2019 - Present | Waterloo, Ontario

- Started a small company in order to produce and test prototype for a smart helmet device. Working along side one other co-founder programming and creating hardware. All external parts are printed via 3D printer and micro-controller being use is a Raspberry-Pi.

Team Mentor

First Robotics Competition, Team 8403

November 2019 - Present | Hamilton, Ontario

- Returned to old high school to mentor the FRC team in this years competition. Assisting the team in the mechanical and software aspects of building and testing the robot. Code is being written in Java. Teach coding lessons to the team and assist in build meetings.

SKILLS

C#, C++, React, Node.JS
Python, HTML, Solidworks
CSS, 3D printing, Unity

EDUCATION / COURSES

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University of Waterloo

Sep 2019 – Present

Python Bootcamp

Udemy

August 2019 – present

HONORS & AWARDS

- Valedictorian of Graduating Class (High school)
- Ontario Scholars Award.
- Honour role for four years in a row.
- Presidents Award Scholarship (95%).
- Nominated for Schulich Leader Scholarship.

PROJECTS

3D unity game

- Created game that is rendered for iPhone controls (touch-screen) using Unity and C. Single-level arcade game that makes use of classes, methods, vectors.

Portfolio Website

- Designed and programmed a portfolio website in React, Node.JS, HTMl and CSS. Designed to portrait all projects and act as a medium for communications to public. Blog updates on mentor-ship program with First Robotics Competition (FRC) team 8403. Also includes blog updates about personal company and company product. (gurmanbrar.com)

VR App (Game)

- Designed and programmed a VR game that takes users on a tour through different cities, assessing the impact of Climate Change. Created using Unity and Goggle cardboard SDK. Programmed in C, incorporating vector path following and object initiated events.

SUMO bots

- Designed and programmed (C++) a small robot that competed in a SUMO competition. Code was designed to avoid and attack other robots as well as detect and avoid a white line. Made use of a 3D printed chassis and various sensors. Microcontroller used was Arduino.