

QUALIFICATIONS

- ❖ Complete knowledge of programming languages such as JAVA, C
- ❖ Intermediate knowledge of programming languages such as PYTHON, MATLAB, ASSEMBLY, SIMULINK, HTML/CSS and basic knowledge in VHDL & JAVASCRIPT
- ❖ Well diverse in using microcontrollers such as STM32, AVR, PIC32
- ❖ Experienced in communication protocols such as i2C, i2S, SPI, UART/USART
- ❖ Extensive knowledge in control theory, power electronics, signal processing, digital/analog circuits
- ❖ Working knowledge of TCP/IP Stack (TCP & UDP) and DSPs (Fixed & Floating Point)
- ❖ Knowledge of computer aided engineering program such as SOLIDWORKS, AUTOCAD, KEIL uVISION, LABVIEW

WORK EXPERIENCE

Software Engineer, Your Home AV – Toronto, Ontario September 2019 – September 2020

- ❖ Your Home AV is a consulted & design company in the Home Automation field
- ❖ Creating several programs for clients in a timely & professional manner including documentation & tutorials for the end user
- ❖ Deploy code on-site & execute routine system test
- ❖ Closely collaborating with teams of the installation, sales and alongside the clients to ensure competitive pricing, the needs of the client, and site installation are met
- ❖ Experience in service calls to perform installations, programming, troubleshooting, upgrades to client's system

Applications Engineer, Black Diamond Blinds – Toronto, Ontario December 2018 – September 2019

- ❖ Black Diamond is a manufacturing & installation company for shading solutions while innovating the shade/blinds/curtain field
- ❖ Used Solidworks to construct a 2D & 3D model of product along with renderings
- ❖ Created blueprints & assembly instructions to be read by end-users and employers
- ❖ Able to create multiple prototypes and deliver to end user for testing and manufacturing stage

Property Manager, Landlord – Toronto, Ontario January 2013 – September 2019

- ❖ Establishing and maintaining electrical and mechanical skill sets through building repairs
- ❖ Overseeing tenants' well-being and several other managerial tasks
- ❖ Understanding the tenant's needs and wants through excellent interpersonal communication
- ❖ Housing over 100+ individuals attending to all their needs

EDUCATION

- ❖ **Bachelor of Engineering, Engineering Systems & Computing**

University of Guelph – Guelph, Ontario

September 2013 – December 2017

RELEVANT PROJECTS

Autonomous Snow Removal Robot with LiDAR

- ❖ Interfaced and implemented the algorithm for the robot to avoid collisions and establish a perimeter to “plow” within. Once done the robot was able to go back “home” to its charging dock
- ❖ Achieved a close to perfect success rate for avoiding collisions

Car Suspension System emulator with Real-Time GUI

- ❖ Emulated a passive, semi – active and active suspension system from a transfer function, then simulated via an embedded C Application to develop a real – time GUI to analyse the system