Viktor Veljanovski

Electrical Engineering at McMaster University

Interested in Power Electronics, Microelectronics, and Electromagnetics. Very passionate about Automotive Engineering.

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SUMMARY

Passionate student at McMaster University pursuing a B. Eng. in Electrical Engineering. Aiming to use technical skills and knowledge to obtain a hands-on co-op placement and further develop as an engineer.

TECHNICAL SKILLS

- Python
- C / C++
- MATLAB
- MS Office
- AutoCAD
- Keil µVision
- Altium Designer
- LTspice
- Quartus
- SOLIDWORKS
- Inventor
- Soldering

KEY COURSES

- Logic Design
- Data Structures & Algorithms
- Electronic Devices & Circuits
- Microprocessor Systems
- Statistics
- Calculus I, II, III
- Linear Algebra
- Circuits & Systems
- Electromagnetics I
- Principals of Programming

EDUCATION

McMaster University

B. Eng. Electrical Engineering

Sept. 2020 – April 2025

Cumulative Avg: 11.3 GPA (3.9 GPA)

EXTRA-CURRICULARS

Formula Electric

Electrical Sub Team – McMaster University — **Oct. 2021 – Present**

- Using industry standard programs such as **Altium Designer** to analyze and re-design **Printed Circuit Boards** for the fully electric racecar.
- Created the **wiring harness** from schematics to implement the **High Voltage** and **Low Voltage** controllers.

EXPERIENCE

Engineering Intern

Irpinia Kitchens – Richmond Hill, Ontario — **May 2021 – Sept. 2021**

- Used **SOLIDWORKS 2019** for creating and constructing assemblies and sub-assemblies of kitchen cabinets.
- Updated the cloud **SWOOD Library** for use by Order Processors and Engineers including SWOOD Frames and SWOOD Boxes.
- Programming in **SOLIDWORKS** using **Visual Basic** for the implementation of CSV files for **automation** of cabinet production.

Customer Fulfillment Associate

Walmart Canada – Stouffville, Ontario — **May 2020 – Sept. 2020**

- **Collaborated** with a team to prepare and deliver the customer's order placed online or over the phone.
- Gained valuable experience with **customer service** and was able to **problem solve** customer's issues.

PROJECTS

Spatial Mapping Using Time-of-Flight — March 2022

- Designed and built an embedded spatial measurement system to acquire distance data and reconstruct the surrounding area graphically.
- Integrated a stepper motor and ToF sensor to measure distance and mapped the points using **Python** and **Open3D**.
- Used **I²C** and **UART** communication protocols between sensor, microcontroller, and computer to transmit data.

Sets Using Binary Search Trees — Feb. 2022

- Implemented the Set abstract data type using binary search trees in **C++.**
- Created **Classes** and **Stacks** for non-recursive traversal of Nodes.

Automated Arm for Sorting — Jan. 2021

- Programmed the movement and operation of a gripper using sensor values as inputs to move a surgical tool within a container using **Python**.
- Implemented **Classes** for each container object to specify the needed attributes and simulated the program in **Quanser Labs**.

REFERENCES – AVAILABLE UPON REQUEST