

Kisoban Rajendran

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Summary

4th Year Computer Engineering student who attends Toronto Metropolitan University. Well-versed in multiple programming languages such as Python, C, C++, Java and VHDL. Also has experience in using different frameworks such as OpenCV, TensorFlow and NumPy.

Skills

- Languages: Python, Java, C, C++, VHDL, HTML, CSS, Javascript, MATLAB, Verilog, SystemC, SQL
- Frameworks: *OpenCV*, *TensorFlow*, *NumPy*, *SciPy*,
- Software Environments: Quartus, Xilinx, Anaconda, Powershell, Linux, NetBeans, Visual Studio

Projects

Card Detection Program

[See Github](#) 

- Developed a Card Detection Program to detect the kind of card presented in front of the program
- Implemented different detection methods to classify the card presented (Color Detection, Edge Detection, Thresholding)
- **Tools Used:** Python, OpenCV

Automated Parking Management System

[See Github](#) 

- Developed an automated parking lot prototype using an ESP-32 that self updates whenever a car enters the vicinity of the parking lot
- Created a web app using front end services (HTML, CSS and React) for customers to verify their identity
- Implemented a database (Google Firebase) to store customer information which was accessed using SQL
- Collaborated in a team environment to conceptualize and design a prototype within hardware and software requirements
- **Tools Used:** C, Arduino, SQL, Python, HTML, JavaScript, CSS, REACT, OpenCV, ESP32

Lowpass Filter Design

[See Github](#) 

- Constructed a Digital Lowpass filter using a Filter Designer tp cut off High Frequencies on an Audio Signal
- **Tools Used:** C++, Python, [MicroModeler DSP](#) 

ENF (Electric Network Frequency) Project

[See Github](#) 

- Extracted the Electric Network Frequencies from an Audio Signal in order examine frequencies containing background 'humming' noises
- **Tools Used:** MATLAB

Education

Toronto Metropolitan University (Formerly Ryerson University)

Sept 2020 – May 2025

BEng in Computer Engineering

- GPA: 3.01/4.0
- **Coursework:** DSP, Computer Architecture, Wireless Communications, Intelligent Systems, SOC Design

Work Experience

Lot Associate

Vaughan, ON

Home Depot

May 2021 – Oct 2023

- Boosted Sales by 15% by implementing safety protocols and offering excellent customer service
- Assisted customers with loading their merchandise