Josh Taraba

COMPUTER ENGINEER

Summary

5+ years of experience with programming languages like, Java, Python, C, C++, MATLAB, VHDL as well as extensive work with devices like, oscilloscopes, Simulink, multimeter, microcontrollers.

Smart serve, Serve safe, previous first aid training

Education

Computer Engineering

Ryerson University *Sep 2016 - Apr 2021*

Relevant course work

- Data Structures and Algorithms: covers existing and the creation of algorithms and how they interact with data structure types
- Microprocessors: went in depth on how a microprocessor functions and the language behind them

Projects

Smart City Platform Capstone

Sep 2020 - Present

- Designed a Smart City Platform with various applications in mind.
- Developed architecture, API documentation, component schematics and machine learning models.

Arithmetic Logic Unit Processor

Mar 2020

- The ALU was designed using digital logic theory and implemented on Quartus Prime.
- From a switchboard, it accepted user input and displayed operations such as addition and masking to a seven segment LED display.

EE-Bot Path Finder

Apr 2020

- Used assembly languages to program an ee-Bot to go through a maze forward and backward. This was done using a stack to push and pull the correct direction.

Bank Account Application

Dec 2019

- The application allows a manager and customer to login, make withdraws, deposits and various purchases.

Contact

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Languages

C	■ ■ ■ ■ □
Python	■ ■ ■ ■ ■
Java	■ ■ ■ ■ ■
Dart	■ ■ ■ ■ □
VHDL	■ ■ ■ ■ □
HTML	■ ■ ■ ■ ■
C++	■ ■ ■ ■ □

Skills

Flutter	■ ■ ■ ■ ■
React	■ ■ ■ ■ □
TensorFlow	■ ■ ■ □ □
AWS	■ ■ ■ ■ □
Simulink	■ ■ ■ ■ ■
Docker	■ ■ ■ ■ □

Experience

Event Server
Ravine Vineyard
Apr 2018 - Aug 2019

Crew Chief
Student Works
May 2017 - Aug 2017

Shift Manager
McDonald's Restaurant
Mar 2014 - Aug 2016