Sarim Shahwar

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Education

Toronto Metropolitan University

Bachelor of Engineering (B.Eng., Computer Software Engineering)

Toronto, ON Sep 2021- Present

- Activities: Vehicle Controls Systems Lead for Ryerson International Hyperloop, VP of Finance for TorontoMet TCF.
- Relevant Courses: Data Structures, Algorithms, Software Systems (Java, C language, Linux), Circuit Architecture Design, Web Development (HTML/CSS, JavaScript, React.js)

Skills </>

Language: HTML5/CSS3, Java, JavaScript, C, VHDL, Verilog, MATLAB

Framework/library: React.js, Vue.js, JUnit

Technology: Firebase, Git, Quartus (Digital Logic), SOLIDWORKS, NI Multisim, Jenkins, Eclipse, Linux, Photoshop, SQL, MS Office

Hardware: Arduino, Raspberry Pi, Circuit Architecture Design

Experience

S&IM Corp | Software Engineering Internship

Corp | Software Engineering Internship

Creation of Company Websites using Wix UI/UX, HTML/CSS, JavaScript, React.js, and Velo API.

May 2023- Present

Implementation and creation of booking, renting, and payment methods.

Ryerson International Hyperloop | Vehicle Controls System

Guidance, Navigation & Control Systems Lead.

• Programmed the vehicle control system, designed the hardware layout, and tested the systems already in place.

Create codes for Arduino, Raspberry PI, and Communication devices such as XBEE modules.

Wired circuits for each component to run accordingly, with respect to the created program.

Vex Robotics | Robotics Programmer & Builder

Programmed in C++ for the robot to function with respect to sensors and control systems.

Toronto, ON Sep 2017- Jun 2020

Toronto, ON

Jan 2022- Present

- Developed a code for the autonomous driving function and driver control using several sensors and gyroscopes.
- Designed a 3-dimensional layout of the build, including the functionality using Dassault Systèmes SOLIDWORKS.

Projects

Flight Booking System

- Created a Java program which functions as a simple model of a flight booking system, including JavaFX.
- Objects were created to represent flights, passengers (frequent flyer members or non-members), bookings, available seats, ticket prices for respected members and non-members, departure, and arrival times.
- Tested the Flight Booking System using JUnit to ensure the program functions with the desired outputs.

Simple GPCPU (General-Purpose Processor)

- Designed and constructed a logic unit that functioned as a General-Purpose Processor.
- Created the following components, which led to the final functional build of the processor: Arithmetic logic unit, Latch, Decoder logic, Multiplexer logic, FSM logic, and Seven-Segment Display.
- Block Diagrams and waveforms were created to simulate the behaviour of the designed processor.

Announcement Application

- Created an announcement application using HTML/CSS, JavaScript, and Local Storage.
- The announcement application consists of a separate student and teacher login page. Teachers will have access to a student viewer and an announcement sender page.
- Students can only access a student login page and an announcement viewer page.

Great Lakes Data Calculator

- Created a C language program to collect specific data from a table with regard to the 6 Great Lakes
- Given the data, the created program will display specific information collected from the data table.
- Ex; a lake with the highest temperature during a particular year, the average temperature of all the lakes in the past five years.