Sarim Shahwar

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Summary of Qualifications

- Programming Languages: Java (OOP), C, HTML/CSS, JavaScript, VHDL, Verilog, SQL
- Operating Systems: Windows, Linux, MacOS, Android
- Software: Quartus (Digital Logic), Eclipse, NetBeans, JUnit, MATLAB, SOLIDWORKS, NI Multisim
- Hardware: Arduino, Raspberry Pi, Circuit Architecture Design
- **Certification:** Certified SOLIDWORKS Associate (CSWA), Spark Fundamentals, Hadoop Foundations, Big Data Foundations, Red Cross Youth Facilitator, WHMIS Certification.
- Languages: Fluent in English, conversational in Urdu, Hindi, and Arabic.

Education

September 2021– Present

TORONTO METROPOLITAN UNIVERSITY, Toronto, Ontario

George Vari Engineering and Computing Centre, ENG

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

Projects

Flight Booking System

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

Skills: Java (OOP), JUnit, Eclipse, NetBeans

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, Seven-Segment Display.
- Block Diagrams and waveforms were created to simulate the behavior of the designed processor.

Skills: VHDL, Verilog, Logic Functions

Announcement Application

- Created an announcement application with the use of HTML/CSS and JavaScript.
- The application was implemented with the use of 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 will have access to only a student login page, and an announcement viewer page.

Skills: HTML/CSS, JavaScript, Sublime Text

Greatlakes Data Calculator

- Created a C language program to collect specific data from a table with regards the 6 Great Lakes.
- Given the data, the created program will then display specific information collected from the data table.
- Ex; lake with the highest temperature during a certain year, the average temperature of all the lakes in the past 5 years.

Skills: C, Geany

Work Experience

CEWIL Technology Innovation & Social Impact Fellowship

January 2022–

Play4Tomorrow – North America

Present

- Grand Prize winner of 150+ game submissions for "The Academy Challenge," a 48-hour game design competition.
- Working with the best international technologist and youth development experts
- Creating functional games that can impact youth socially and incorporate historically creative individuals such as tech entrepreneurs.
- Internship with possibly: Stanford University, Zero Degree Project, TVO, Roblox, TeachAids, etc.

Vehicle Control System Team Member

January 2022-

Ryerson International Hyperloop – Toronto

Present

- Guidance, Navigation & Control Systems Team Member
- Assist with various tasks involving but not limited to, programming the vehicle control system, designing the hardware layout, and testing the systems already in place.
- Create codes for Arduino, Raspberry PI, and Communication devices such as XBEE modules
- Wire circuits in order for each component to run accordingly, with respect to the created program.
- Coordinate with other team members to ensure all competition requirements are met.

OMNI CUSTOMER EXPERIENCE SALESFLOOR ASSOCIATE

April 2020– August 2021

WALMART CANADA - Brampton, ON

- Provide customer service by offering assistance to meet the customer's shopping needs.
- Function as part of a team to strategically plan and execute duties based on workload and customer traffic patterns.
- Comply with All Food Safety standards and Cold Chain procedures, i.e., complete SureCheck.

ROBOTICS PROGRAMMER & BUILDER

September 2017-

VEX ROBOTICS - Brampton, ON

June 2019

- Overlooked and mentored by senior programmers on how to code using C++ in order for the robot to function.
- Created code for the autonomous driving function and driver control.
- Designed a 3-dimensional layout of the build, including the functionality.
- Built the robot using precise measurements and maintained the build throughout various competitions
- 2 Consecutive qualifications to the VEX Robotics World Championship in Louisville, Kentucky, USA.