

NAUMAAN SHEIKH

1B Computer Engineering | ID: 20886320 | n8sheikh@uwaterloo.ca
(647) 772-1412 | www.linkedin.com/in/naumaansheikh

Technical Skills

- Proficient in **C++**, **Java**, **VHDL**, **Visual Basic**, **HTML** and **Object-Oriented Programming**
- Well-versed in electronics and **microcontrollers** with **Arduino**
- Experience with graphical applications such as **AutoDesk Inventor**, **TinkerCAD** and **Unity 3d**
- Proficient understanding of **Linux** and **MacOS** functionality

Projects

Minesweeper C++

2021

- Created an algorithm to assign a value to each position in a matrix with a **user-defined size**
- Efficiently programmed **revealing elements** to mark or reveal a position determined by the user with the appropriate value assigned to each element (M for marked, 0-9 for number of surrounding mines)
- Effectively calculated algorithms to reveal neighbouring units if the user input position value is 0

Arduino Based Key Master Arcade Machine Design

2020

- Designed the build of the machine and placed the Arduino board and the necessary components, such as DC, step, and servo motors, LCD screen, etc. on TinkerCAD
- Assembled and programmed all components on TinkerCAD such that the machine would move the mechanical arm to the user's desired location and extend, retract, and then return to its original position

Experience

Abbey Park VEX Robotics Executive

March 2019 – March 2020

- Guided over 30 students, with varying experience, each week on how to operate a VEX robot while tracking the available materials and enforcing appropriate safety protocols and regulations
- Instructed lessons for and aided members on programming, building, designing and controlling robots using various power tools and programs such as AutoCad and VEXcode

Hackathon Third

February 2020

- Efficiently wired two 8x8 LED matrices to an Arduino and Raspberry Pi
- Devised an efficient algorithm in C++ to constantly monitor for user inputs while powering specific
- LEDs across the matrices
- Managed all hardware aspects of the project to accommodate for its completion in 6 hours

Halton Skills Coding Competition

April 2019

- Effectively managed my time to complete a series of tasks in Java within 5 hours
- Created a database to store employee information, including name, email, phone number and address
- Efficiently used OOP principles using multiple classes to add or remove employees from an external text file

Education

University of Waterloo – B.A.Sc Honours Candidate in Computer Engineering

2025