SAHIL BUTT

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TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, Java, C++
Frameworks/Tools: MS Office, Linux, VS Code, Mac OS, Jira(Kanban layout), JavaFX, Eclipse
Programming concepts: Addresses and pointers, Algorithms and templates, Classes, Linked lists

PROJECTS

analog-clock
Technologies: HTML, CSS, JavaScript

- Created a Clock that is directly synchronized with any device that is accessing it using a **Date constructor**.
- Implemented **positioning** and **transformations** using CSS properties in multiple ways to achieve a Clock shape.
- Used div elements to group class names together in order to implement **class-selectors** which can be used to style elements of the clock.

survey-form
Technologies: HTML, CSS

- Created a survey form which implements the use of radio buttons, submit button, check boxes, and a drop down with multiple options to create the survey form structure using **HTML defined elements**.
- Implemented appropriate spacing, colouring, and font type to create an **appealing** and **user friendly** form using **CSS properties**.

Making Purchases
Technologies: JavaFX

- Created a restaurant menu which calculates the grand total, tax rate, and sub total of the number of pizza slices purchased.
- Implemented the program using **JavaFX** with various predefined layouts and basic UI Controls.

Remote Control Car
Technologies: Raspbian OS, C++, SSH Protocol, Arduino IDE

- Designed and implemented a dual motor, all-wheel drive remote control car with the **SSH**(Secure Shield) protocol.
- Implemented an **H-bridge** to allow **DC motors** to run forwards or backwards by switching the polarity of a voltage applied to a load.

EXPERIENCE

Robotics Club Sept 2021 - Jan 2022
Don Mills Collegiate Institute

- Participated in making a robot for the VEX competition while working under strict deadlines with a team.
- Developed experience working as a team by **Soldering** wires while taking safety precautions.
- Took precise measurements of metals and sawed them while using a chisel tool to avoid sharp corners while taking safety precautions.

Engineering Ambassador Sept 2022 - Present
University of Waterloo

- Participated as an **Engineering tour guide** to teach incoming first years about engineering life on campus and program requirements.
- Tour guided over 50 students in a span of 3 rounds which improved my **public speaking skills**.

EDUCATION

University of Waterloo
Bachelor of Applied Science - Honours Computer Engineering Expected 2027