
SHAWN BALTAR

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Technical Skills

Computer Languages: C/C++, Java, JavaScript, HTML, CSS, VHDL

Experience with LT Spice, Eagle, AutoCAD, Rhinoceros 3D, MATLAB, Quartus, ModelSim, Linux

Project Experience

House Alarm | FPGA:

Jul 2018

Simon Fraser University, Burnaby

- Learned VHDL logics and code for basic gates, counters, adders, encoders and decoders.
- Implemented a finite state machine in VHDL to arm the alarm.

Pill Dispenser:

Sept 2017 – Dec 2017

Simon Fraser University, Burnaby

- Collaborated with other students to design a dispenser using an Arduino and 3D printed parts.
- Modeled pills in AutoCAD to determine if the dimensions would fit in the pill dispenser.
- 3D printed gears for the dispenser to align openings to choose a desired pill.

Checkers:

Dec 2017

Simon Fraser University, Burnaby

- Recreated a text-based version of the game, Mule Checkers, in C++.
- Used multi-dimensional arrays as the checker board to control the movement of pieces.
- Interacted with peers to debug and used online resources to complete the project without any errors.

LED Dice | soldering project

Nov 2017

Simon Fraser University, Burnaby

- Soldered small components to a PCB to create a LED dice.
- Controlled by a button, six LEDs in a dice formation would light up.

Website Design:

Apr 2017

Lighthouse Labs, Vancouver

- Created a JavaScript website with HTML and CSS.
- Developed a simple chat server made using Node.js, Web Sockets, and Express.

Education

Simon Fraser University

Sept 2017 - Present

- Bachelor of Applied Science, Computer Engineering