



Sanid Singhal

Electrical Engineering Student (2nd Year)

An engineering student aspiring to solve critical and complex engineering problems as a young and dynamic thinker for growth and prosperity. A certified graduate of the Lighthouse Labs Web Development course with intermediate experience in application based, web based and object oriented programming. Acquired intermediate design skills in Boolean Logic, FPGA , Verilog and ARM assembly language. Heavily inspired by innovative technological advancements and associated applications in their ability to make society a better place and connection to the power of innovation, creation and automation initiative.

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EDUCATION

**Bachelor of Applied Science -
Electrical Engineering**
University of British Columbia
3 of 8 academic terms completed
Expected graduation: May 2022

TECHNICAL SKILLS

Electrical Equipment

Arduino Kit
Oscilloscope
Signal Generator
Breadboard
DeSoC-1
FPGA

Computer/Software

MATLAB
C, C++
ARM Assembly Language
Verilog
Quartus
HTML, CSS, Javascript, JQuery
Ruby, Sinatra
Python
Git
General Data Structures and Algorithms
Solid Works
Microsoft Office

Production Equipment

ICF Manufacturing Machines
Packaging Machines

CERTIFICATIONS/ AFFILIATIONS

- ◆ Certification in Lighthouse Labs Web-Development Course
- ◆ IEEE membership

WORK EXPERIENCE

Assistant Programming Instructor (Part-time)

Western Canada Hunan Association

June - August 2018

Calgary, AB

- ◆ Taught basic and advanced Python computer programming language to children from age 12 to 17.

Production Assistant

Amvic Systems Manufacturing

May 2018

Calgary, AB

- ◆ Assisted in the manufacturing and packaging of insulated concrete foams used to build the foundations of homes and structures.

TECHNICAL PROJECTS

Lunar Resource Extraction project, UBC Mars Colony Design Team

Jan 2019 to present

- ◆ Working as an Electrical Engineer team member focusing on resource extraction in space of Helium-3 for Nuclear Fusion.
- ◆ Currently working on the preliminary design of robotic probe for resource extraction in space.

CPU Design(RISC machine) project

Oct 2018

- ◆ Designed a functional CPU with 8, 8 bit registers and ALU using RISC instruction set.
- ◆ Utilized Verilog, Quartus and ModelSim in the development of the application. Programmed and tested on the Intel De1- Soc board.

Personal Website

July 2018

- ◆ Built a professional website from scratch using web development tools and languages such as HTML, CSS and Javascript.

Finstagram Web Application

June 2018

- ◆ Designed a spinoff demo version of Instagram using front end and back end web development tools.
- ◆ Utilized HTML, CSS, Ruby and Sinatra and SQL in the development of the application.
- ◆ Developed user interface with login, signup and uploading images capabilities in a very Instragram-esque layout.

Simons/Snake Game

May -June 2018

- ◆ Developed a memory game using a combination of Objective C and Data Acquisition simulator (DAQ)

Developed Classic snake game on the web using Javascript.