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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https://github.com/sanids
www.sanids.ga

EDUCATION

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

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

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

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.

CPU Construction project
Oct 2018
♦ Designed a functional CPU consisting of 8, 8 bit registers.
♦ Utilized Verilog and hardware description software such as Quartus and ModelSim in the development of the application.
♦ Programmed and tested on the Intel De1- Soc board.
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Simons Game
June 2018

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

Snake Game
May 2018
♦ Developed Classic snake game on the web using Javascript.

PROFESSIONAL AFFILIATIONS/CERTIFICATIONS

♦ Certification in Lighthouse Labs Web-Development Course   *2018*
♦ IEEE.

AWARDS

♦ Alexander Rutherford Scholarship   *2017*
♦ Suncor Energy Scholarship   *2017-2021*

VOLUNTEER WORK EXPERIENCE

High School Associations (Westmount Charter 2014-2017)
Event Coordinator for Student Athletic Awareness Club

♦ Involved in the production and setup for major athletic events.
♦ Collaborated to make graphical designs for posters and advertisements.

Community Volunteering
Disabled Care in the Rehabilitation Program at Carewest Health Facility

♦ Engaged in the care of disabled patient at the Health Care Facility

Canvasser for Canadian Diabetes Association

♦ Canvassed in the neighborhoods of Calgary to raise awareness and fund raising activities for the Canadian Diabetes Association.

Political/Government Volunteering
Active Canvassing and Statistical Analysis of Demographics for Progressive Conservative Party

♦ Sorted demographical statistics about voting outcomes and predictions.

ACTIVITIES AND INTERESTS

Athletics

♦ Core member of junior and senior basketball team from 2014-2017
♦ Junior Boys MVP of Basketball
♦ Weightlifting

Music

♦ Guitar
♦ Trombone

REFERENCES

Available on request