FONDA CHAU

ELECTRICAL ENGINEER

SKILLS

Electrical Design:

- Power Single Line drawings
- Electrical Schematics
- Panel Installation drawings
- Electrical wiring diagrams,
- Network Architecture Design Drawings

Software:

- Matlab
- Autocad
- Solidworks
- Altium
- Visual Studios

Programming Languages:

- C/C++/C#
- Python
- Verilog/System Verilog
- Assembly (ARM, ASM)
- Arduino

Development Equipment:

- Oscillioscope,
- Signals Generator
- Multimeter
- Soldering Iron
- Microcontroller
- Development Boards

CONTACT

PHONE:
604-910-8801

WEBSITE:
https://fondachau.github.io/Portfolio/

EMAIL:
Chau.fonda@gmail.com

HOBBIES

3D printing
Swimming
Traveling

EDUCATION

BACHELOR OF APPLIED SCIENCE, UNIVERSITY OF BRITISH COLUMBIA
MAY 2019
Electrical Engineering, Biomedical Option
Dean of Applied Science's Honour List (2014-2016)
Graduated with a 80.6% accumulative average

WORK EXPERIENCE

BROCK SOLUTIONS, Electrical Designer/ Engineer
September 2019–Present
Design electrical control system schematics in accordance with each customer's specifications and associated contractual obligations, as well as local, state, and national electrical engineering codes and industry standards.
Produced a variety of types of drawings such as panel drawings, device layout drawings, E-stop drawings, etc.

VANRX PHARAMSYSTEMS INC, Electrical Engineering Co=op
January 2017–September 2017
Conducted load, heat dissipation, and arc flash studies
Implemented new functionality to the system such as the status beacon system, load cells and scales.
Design and built various test rigs for manufacturing purposes and component testing

SIERRA WIRELESS, Software Test Co-op
May 2016–December 2016
Tested the Air-Prime Series of embedded modules and their associated software
Developed scripts in python to automate common test cases
Trained 5 new employees on testing procedures, bug identification and testing automation

PROJECTS

NON-CONTACT MEASUREMENT OF VITAL SIGNS
Design and built a system involving a FMCW radio, video and infrared camera to measure respiratory rate, heart rate and body temperature
Awarded the Outstanding Capstone Project Award

PID CONTROLLED LASER LIGHT SHOW
Design and built 2 brushed DC motors with optical encoders
Motors are controlled by PID controllers to move a laser to display an image of a Pacman's ghost on the wall
Awarded First Place based on the entire year's class projects

HEART RATE MONITOR
Built a heart rate monitor that consist of an 8051 microcontroller, phototransistor, and LED
Displayed the pulse (a heart on the LCD screen for each beat), beats per minute and allow the user to set a notification if a specific heart rate is reached