FONDA CHAU
ELECTRICAL ENGINEER

CONTACT

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WEBSITE:
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Github
https://github.com/fondachau

SKILLS

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

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

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

HOBBIES

3D printing
Swimming
Traveling

WORK EXPERIENCE

BROCK SOLUTIONS, Electrical Designer/ Engineer, Electrical Lead
September 2019–Present
- o Designed 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, such as NEC,CSA, UL
- o Produced a variety of types of drawings such as panel drawings, device layout drawings, E-stop drawings, etc. with Autocad

VANRX PHARMASYSTEMS INC, Electrical Engineering Co-op
January 2017–September 2017
- o Conducted load, heat dissipation, and arc flash studies for the SA25 Aseptic filling machine
- o Implemented new functionality to the system such as the status beacon system, load cells and scales.
- o Produced panel drawings, power distrubtion drawings with autocad electrical and solidworks electrical
- o Designed and built various test rigs for manufacturing purposes and component testing.

SIERRA WIRELESS, Software Test Co-op
May 2016–December 2016
- o Performed functional testing and stress test on the Air-Prime Series of embedded modules and their associated software.
- o Developed scripts in python to automate common test cases reducing the amount of manual testing time by 50%.
- o Trained 5 new employees on testing procedures, bug identification and testing automation.

PROJECTS

NON-CONTACT MEASUREMENT OF VITAL SIGNS
Designed and built a system involving a FMCW radio, video, and infrared camera to measure respiratory rate, heart rate and body temperature.
- Skills: Python, Matlab, Solidworks
- o Awarded the Outstanding Capstone Project Award.

PID CONTROLLED LASER LIGHT SHOW
Designed and built 2 brushed DC motors with optical encoders to form a 2 degree of freedom arm that is controlled with a PID controllers to move a laser to display an image of a Pacman's ghost on the wall.
- Skills: Arduino, Altium, Solidworks
- o Awarded First Place based on stability, accurately and functionality compared to the entire year's class projects.

HEART RATE MONITOR
Built a heart rate monitor that consist of an 8051 microcontroller, phototransistor, and LED which displays 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.
- Skills Assembly

EDUCATION

BACHELOR OF APPLIED SCIENCE, UNIVERSITY OF BRITISH COLUMBIA
MAY 2019
Electrical Engineering,
Dean of Applied Science's Honour List (2014-2016), GPA 3.70