FONDA **CHAU**

3086 East 15th ave · 6049108801
Chau.fonda@gmail.com · www.linkedin.com/in/fonda-chau · https://github.com/fondachau
https://fondachau.github.io/Portfolio/

EXPERIENCE

JANUARY 2017 – SEPTEMBER 2017

ELECTRICAL ENGINEERING COOP, VANRX PHARMASYSTEMS INC

Update and maintain electrical, pneumatic and P&ID schematics for the SA25 Aseptic filling system and accumulator on Autocad
Conduct load studies, heat dissipation studies and arc flash studies for the SA25 and the accumulator
Worked on new functionality to the systems, such as the status beacon system, load cells and scales
Built various test rigs for manufacturing purposes and component testing
Work closely with other engineers, manufacturing technicians, and the integration team

MAY 2016 – DECEMBER 2016

SOFTWARE TEST COOP, SIERRA WIRELESS

Test the Air-Prime Series of embedded modules and their associated software
Ran Functional and stability test on the modules and software
Wrote scripts in python to automate the test cases
Trained 5 new employees on testing procedures, bug identification and test automation

EDUCATION

MAY 2019

BACHELOR OF APPLIED SCIENCE, UNIVERISTY OF BRITISH COLUMBIA

Electrical Engineering, Biomedical Option
Dean of Applied Science's Honour List (2014-2016)
Outstanding Capstone project award
Graduated with an 80.6% accumulated average

SKILLS

Development Equipment

- Oscilloscope
- Signal Generator
- Multimeter
- Soldering Iron
- Microcontrollers
- Development boards (DE1-SOC, Raspberry Pi)
- PCB design

Programming Languages

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

Software

- Matlab
- AutoCad/AutoCad Electrical
- Solidworks
- Altium
- Visual studios
- Altera Monitor
- Quartus/Model Sim

ACTIVITIES

NON-CONTACT MEASUREMENT OF VITAL SIGNS, ELEC 494 BIOMEDICAL CAPSTONE

A system involving a FMCW Radio, Video Camera, Infrared Camera to measure Respiratory Rate, Heart Rate and Body temperature.
System targeted to be placed in hospital waiting rooms with possible application to other settings.
Developed detecting respiratory rate and heart rate by detecting motion through video and infrared camera and integrate infrared camera for temperature comparisons
Worked with 4 other students and was awarded with Outstanding Capstone project.

PID CONTROLLED LASER LIGHT SHOW, ELEC 391 ELECTRICAL ENGINEER DESIGN STUDIOS II

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
Worked with 3 other students and was awarded with first place based on the entire year's class projects

LAPAROSCOPY INTERFACE, ELEC 371 BIOMEDICAL ENGINEERING INSTRUMENTATION

Designed interface for Laparoscopy training
Contain Video reference for appendectomy, step walkthrough, and final check box reminders, Rotatable and resizable video for easier camera manipulation, Stopwatch to allow students to determine efficiency by knowing the amount of time to complete tasks, Randomized blood to obstruction view for more realistic training, Screen capture for student evaluation and later reference, ability to draw shapes on video screen for highlight areas of interest and Chat communications with professor and other students in distance learning environments.