FONDA **CHAU**

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

I am recent graduate with a bachelor's in electrical engineering, specializing in biomedical application. I have software and hardware experience from my previous work placements. As a software tester for Sierra Wireless I was required to test firmware, drivers and other host software programs for embedded modules. A large attention to detail and exceptional communication skills were necessary as I had to precisely relay findings to developers and other testers. As a result of my experience, I have improved my time managing skills and have become a more efficient worker. During my time at Vanrx Pharmasystem, I worked on implementing new components, updating electrical schematics with autocad electrical, and worked on assembly models on solidworks which were to be used in client document signoff and manufacturing. I proved to have the ability meet deadlines, priorities, problem solve and maintain quality in my work. I am currently looking for a role that complements my skills set and experience. I am available immediately

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

MARCH 2014 – SEPTEMBER 2015

SUMMER PROGRAM INSTRUCTOR/ SPRING DAY CAMP LEADER, RENFREW COMMUNITY CENTER

Instructor for the Multi-Sport Mania, Outdoor Active Play, Outdoor Art and Story, Breakfast Club, Pit Stop and maintaining the games area (about 10 children)
Instructed Summer/Spring day camp with three other individual to lead activities such as games, crafts, and fieldtrips for a camp of 40 children
Organized forms and wavers and ensured a safe environment for children and the general public
Instructed and help strengthen volunteer's leadership skills and allowing them to develop and to become leader themselves

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% cumulative average

SKILLS

Development Equipment

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

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.

HEART RATE MONITOR, ELEC 291 ELECTRICAL ENGINEER DESIGN STUDIOS I

Built a heart rate monitor that consist of an 8051 microcontroller, Phototransistors, LEDs and OPamps.
Displays the pulse (a heart on the LCD screen for each beat), beats per minute, and allows the user to set a notification if a specific heart rate is reached

VOLUNTEER WORK

JULY 2014

MEDICAL AID FOR VIETNAM, VOLUNTEER

Worked alongside with doctors, nurses, pharmacist and dentist in rural areas of south Vietnam
Assisted doctors and dentist in translating, cleaning of dental instruments, packaging of medicines with the help of pharmacist and prescription of doctors and help maintain order of large crowds of people

SEPTEMBER 2013-JUNE 2014

LITTLE FLOWER ACADEMY, PEER TUTOR

Tutored lower and fellow classmates in math and science by providing clear instruction on fundamental concepts to help them to achieve a 15% higher in their grades