

Clarence Adrian

ELECTRICAL ENGINEER/
PROGRAMMER

TECHNICAL SKILLS

Programming Languages:

- Verilog HDL
- Assembly (ARM, x86)
- C, Embedded C
- Python
- Arduino
- MATLAB

Hardware:

- STM32, EFM8, AT89, ATtiny85
Microcontrollers
- ARM SoC FPGA

Additional Software:

- GNU-Make (Makefiles)
- SOLIDWORKS

EDUCATION

University of British Columbia

Bachelor of Applied Science
Electrical Engineering
2017 – present

OTHER AFFILIATIONS

- Unlimited Dance Club UBC
VP Marketing
- BBW International
Barback/Event Staff

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clarence-adrian



ad2969



TECHNICAL PROJECTS

Autonomous Ocean-Going Sailboat

Ongoing

Engineering Design Team Project - UBC Sailbot

Position: Electrical sub-team, Sponsorship/Events Coordinator

- Implemented brushless motor based on electrical specifications to maximize boat rudder actuation.

FPGA RISC Machine

Academic Project

September 2018 – November 2018

- Developed and designed a 'turing-complete' RISC machine capable of complex ALU operation, interrupts, and memory access ability, using **Verilog HDL** and **assembly**
- Utilized revision testing technologies (**git**) to debug and conduct rigorous regression tests on RISC machine through **Verilog** testbenches and waveform analysis

Heart-Rate Therapy Device

February 2019

Academic Project

- Constructed a photoelectric heart-rate detector using the **EFM8** and simple household materials: clothes peg and LED
- Programmed a visual GUI (**python**) that displays input BPM information with user-set variables

Coin-Picking Robot

March 2019

Academic Project

- Program an intelligent bot, using **python**, that can analyze the sentiment of 300,000 twitter posts with 85% accuracy



WORK EXPERIENCE

Franchise Owner, Student Works Painting

December 2017 – September 2018

- Self-managed a profitable painting franchise, leveraging skills in **marketing**, **sales**, and **employee/customer relations** to produce over 50,000 CAD in sales while maintaining a customer satisfaction rate of over 90% and a top 100 franchisee ranking
- Produced professional exterior and interior paint jobs by utilizing skills in **project management** to recruit, train and directly supervise 3 crews of 3-6 painters



VOLUNTEER EXPERIENCE

External Relations Coordinator

PERMIKA Nasional

- Manage internal funds and arrange fundraisers to accumulate operating funds and donations for national disaster victims