ANDREW YAN

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EDUCATION

UBC VANCOUVER

Graduating May 2020
BASc in Electrical Engineering
Biomedical Option

SKILLS

EQUIPMENT

- Breadboard
- Power Supply
- Oscilloscope
- Multimeter
- Function Generator
- Soldering Iron
- RCL Meter
- 3D Printers

SOFTWARE

- Altium Designer
- SolidWorks
- MATLAB
- Simulink
- Microsoft Office

LANGUAGES

- Verilog/SystemVerilog
- VHDL
- C/C++
- Python
- ARM Assembly
- Java
- C#
- XML/CSS

AWARDS

- 2017 & 2018 Dean's Honour List
- 2017 Jim and Helen Hill Memorial Service Award in Electrical Engineering

INTERESTS

Swimming, Hiking, Skiing, Badminton, PC Building

WORK EXPERIENCE

KARDIUM INC.

JAN. 2019 – AUG. 2019

Electrical Engineer Co-op

- Created testbenches in VHDL to successfully identify bugs in a product
- Developed solutions in VHDL to successfully correct bugs in a product
- Performed electrical verification testing on features of a product
- Assisted on development of cables that were used in animal trials
- Designed a Python script to perform analysis of warnings from VHDL builds

INTEL CORPORATION

MAY 2018 – DEC. 2018

ECC RTL, Software, FPGA Design (Co-op)

- Designed error correction RTL in Verilog and SystemVerilog that correctly encoded and decoded data to the specifications of a product
- Created software models in C which were used in combination with SystemVerilog testbenches to debug error correction RTL

UBC DEPARTMENT OF ECE

MAY 2017 – AUG. 2017

Co-op Assistant

- Restructured and updated the engineering services website ensuring easier access to information and a more intuitive website hierarchy
- Worked with Altium Designer to prepare mixed-signal simulation testbenches for a set of common IC's used in courses

TECHNICAL PROJECTS

Environmental Enclosure for a Single Cell Inkjet Printer (Capstone)

SEPT. 2019 – PRESENT

- Developed a humidity control system that could keep the enclosure at dew point to prevent cell evaporation and contamination
- Worked directly with the client to determine final specifications

Laser Light Show

JAN. 2017 – MAY 2017

- Designed 3D components in SolidWorks to create a two degree of freedom spherical wrist
- Implemented a PID control system to control two custom mechanically commutated DC motors allowing for a laser to draw accurate shapes
- Created PCBs in Altium Designer to clean up wiring for final design

ENGINEERING STUDENT TEAM

UBC BEST

JAN. 2018 – PRESENT

Chief Technology Officer / Co-Captain

- Managed 6 student-led biomedical engineering projects, ensuring that all projects were meeting their goals and deadlines
- Developed plans to manage team budget with the Chief Operating Officer, ensuring that all projects had the required funding and technical resources for development