Website

Seeking for Full-Time Position Starting May 2021 Interested in Electrical Engineer Positions

(513)886-6058

Citizenship: international student with 3-year working time in USA (and possible 6 more years with working visa)

EDUCATION

M.S. Electrical Engineering, University of Cincinnati, USA Intelligent Systems track, ACCEND Program

Graduating May 2022 GPA 4.0/4.0

B.S. Electrical Engineering, University of Cincinnati, USA Mathematics and Embedded Systems minor, University Honors Program

Graduating May 2021 GPA 3.9/4.0

SKILLS

Signals and Systems Embedded Hardware Circuit Design Embedded Programming Prototyping and Testing Software Development

DSP, Frequency analysis, feedback control systems, PID controller, linear system theory System design with MCU, interface with sensors, actuators, serial and wireless communications Analog and digital circuit design, analysis and simulation, Verilog HDL on FPGA Assembly for PIC on MPLAB, C for Atmel on Atmel Studio, FreeRTOS on Eclipse On-board and PCB prototyping, developing test fixture and procedure, troubleshooting C/C++, C#, Java, Python, MATLAB, SQLite database

INDUCTRY EXPERIENCE

Electrical Engineer (R&D Co-op)

Ethicon Endo-Surgery Inc.

June - August 2019 Blue Ash, OH

- Designed, assembled, troubleshooted and tested a PCB for a prototype product
- Designed a hardware-robust circuit to switch high-voltage lines for a medical surgery generator
- Developed testing code in C to verify NFC sensor functionality with microcontrollers
- Documented implementation methods, testing procedure and test results
- Presented projects and improvements to managers and peer Co-op students

Engineering Teaching Assistant for Bio-Robotic Class

Biology Department, University of Cincinnati

October 2019 - April 2020 Cincinnati, OH

- Sensing in Animals and Robots is an NSF funded program that teaches animal sensing by robotic implementations
- Helped with the development of custom PCB for sonar, light and flex sensors
- Documented the development process as well as the usage of the circuits

Automatic Assembly System Engineer (Co-op)

Jergens Inc.

Jan - August 2018 Cleveland, OH

- Designed and managed installation a grinder safety system with B&R Automation System (PLC)
- Documented project by writing manuals for operators, electrical diagrams to technicians, and programming doc to engineers

PROJECT EXPERIENCE

Modular Garden Monitoring System

Senior Design (Capstone) Project

- An embedded system that autonomously manages garden environment with friendly UI, modular design and wireless communication
- Designed and prototyped circuit for air & soil temperature/humidity sensors
- Designed circuit for solar panel and its power management module
- Troubleshooted circuit design with lab equipment, and improved design accordingly

OPL2 Chiptune Music Player

Final Project for Japanese Music Class

- An embedded system that plays chiptune (8-bit) music with OPL2 chip that was used in Commodore 64
- Designed, prototyped and troubleshooted a PCB as implementation