RICHARD LIM

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As a recent electrical engineering graduate, I am ready to demonstrate my excellent work ethic. Being a fast learner with respectable problem-solving skills, I would adapt quickly to a fast-paced working environment. I want to engineer impactful solutions to real-world problems, and to do so in an environment that values teamwork and innovative thinking

LANGUAGES

Proficient
C++, BGScript

Familiar
C, MySQL, CSS, HTML, Python, Java, MATLAB, Verilog

TOOLS

IDEs
Visual Studio, Eclipse, Geany, Quartus, Android Studio

Software
Microsoft Office Suite, AutoCAD

Operating systems
Windows, Unix (Debian)

COURSEWORK

Object oriented design (C++)
Digital systems design
Software systems

AWARDS

3rd place in the IEEE RC Classic 2019, Autonomous Vehicle Division

HOBBIES

Solving Leetcode problems
Weight training
Soccer
Reading

EDUCATION

British Columbia Institute of Technology — Jan 2015 - May 2019
Bachelors of Engineering, Electrical Engineering
Graduated with distinction

WORK EXPERIENCE

British Columbia Institute of Technology — June 2018 – Sept 2018
Undergraduate Research Assistant

- Worked on time scheduling and practical throughput of Bluetooth Low Energy projects under supervision of Dr. John Dian and Dr. Amirhossein Yousefi
- Conducted experiments with BLE121-LR modules

PROJECTS

RAEVN Heatmap System — Jan 2019 – April 2019

- Designed and implemented BLE mesh network powered data acquisition system
- Developed C++ data acquisition solution for RPI
- Implemented database solution through MariaDB

Digital System Design Project — March 2018 – April 2018

- Implemented the game Whac-A-Mole using the IntelDE0 Nano FPGA board with the Altera FPGA embedded

OpenCV Maze Crawler — June 2017 – July 2017

- Built a Raspberry Pi controlled autonomous vehicle to navigate through a maze using real-time image processing algorithms
- Processed Pi Camera visual data using OpenCV C++

Power Distribution System Design — June 2017 – July 2017

- Designed power distribution for an industrial facility while adhering to the Canadian electrical Code, fault calculations, and coordination studying using SKM Power Tools

DC Power Supply — Sept 2015 – Dec 2015

- Designed chassis of power supply using AutoCAD
- Soldered electrical components to PCB