

Tianrui Luo

University of Toronto Fourth Year Electrical Engineering student
Projected Graduation: May 2024

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Past experiences

Roborock Technology Co.Ltd, Beijing, China — Hardware testing intern

May 2021- August 2021

- Worked in the hardware testing department to monitor the sweeping machine life test.
- Daily work was to observe any abnormal data and analyze using excel.
- Responsible for testing machines in extreme conditions to examine if protection mechanisms work properly.
- Responsible for monthly LDS radar testing and calibrations.

Marvell Technology Inc, San Jose, California, United States— Analog Mixed Signal Design intern

June 2022- June 2023

- Designed mixed signal co-simulation testbench setup in PCIe design.
- Coordinated with designers to validate and perform netlist functionalities.
- Performed Static Timing Analysis and cell characterization on digital circuits

Project experience

Engineering Strategies and Practice II design team, Toronto, ON, Canada — Co-project manager

January 2020 - May 2020

- Goal was to fundamentally solve the problem of light pollution.
- Used AutoCAD to plot feasible solutions.
- Came up with Arduino board codes for automatic lighting control.
- Received high praise from clients and got a grade of 90%.

Software Communication design team, Toronto, ON, Canada — Co-project manager

January 2021 - May 2021

- Designed a travel application using C++ Language.
- Major functionality is to promote the best path for users.
- Used OperStreetMap_API as underlying code and Greedy Algorithm.

Skills

Matlab & Simulink language

C-programming language

C++ programming language

Hardware Verilog language

ARMV7 assembly Language

Analog & Digital circuit analysis

Algorithm & Data structure

Proficiency at all Microsoft office softwares

Professional communication techniques and experienced leadership

Awards

CGPA 3.3 with 11 course of grade A

Euclid contest 2019 Top 25%
-Mark of 75 percent

Galois contest 2017 Top 25%

Shandong Province Satellite Communication and Remote Sensing Project 2018- First prize

Language mastered

Mandarin;

English; (IELTS score 7.5)

