

# Richard Lee

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## Skillset

- C, C++, Python programming
- HTML, CSS, Shopify
- Verilog
- Fluent English and Mandarin

## Professional Experience

**Graduate Research Paper Translation at FengChia University,** Taichung 2019

Exposed to projects undertaken at the FengChia University ECE Research Lab. Topics include:

- Sensor Network optimization
- Image quality enhancement algorithms
- Detecting heart conditions with wearable technology
- Detecting industry equipment irregularities with Neural Networks

**Advanced Digital Systems Visual Computing Intern at ASTRI,** Hong Kong 2019

- Utilised various Machine Learning CNNs on Linux
- Developed on various pose estimation frameworks (OpenPose Plus, OpenPose)
- Developed a sign language detector game (TF-DeepHand)

**Shopify Website Intern at Labworks,** Hong Kong 2018

- Coded with HTML, CSS and some Javascript to enhance online store experience
- Assisted with sales and marketing research
- Learned about quality control with hands on experience
- Aided with translating texts between Chinese and English

**Line Operations Intern, Cathay Pacific Airlines,** Hong Kong 2015

- Collate information on Cathay Pacific's global airport operations
- Digitise airplane parts documents into excel format
- Gained experience on working in a large corporate environment with other people

## Project Experience

**Hardware Arcade Design Project,** UofT 2018

- Designed and built an original fully functional arcade machine
- Developed two original games from scratch
- Designed the hardware components to run the games
- Programmed the hardware design into an FPGA board

<b>Team Member, Engineering IBM Mobile Workstation Project, UofT</b>	2018
<ul style="list-style-type: none"> <li>• Created an iOS application Prototype</li> <li>• Pitched and presented an engineering design</li> <li>• Cooperated with a team of 5 to design a mobile workspace aimed at increasing productivity while travelling for our client IBM</li> <li>• Conducted conference calls with client to discuss our ideas and address concerns</li> <li>• Formulated various technical writing deliverables</li> </ul>	
<b>Hong Kong University (HKU) Engineering Summer Programme for the Elite</b>	2016
<ul style="list-style-type: none"> <li>• Gained exposure to the Electrical and Computer Engineering Faculty within HKU</li> <li>• Developed electrical circuitry skills by building a solar powered toy car</li> <li>• Learned about maintenance at a Mass Transit Railway Depot</li> <li>• Learned about the current status of Electrical and Computer Engineering and what the future hold for those in the industry from the dean</li> </ul>	
<b>CEO, JA Company Programme, Hong Kong</b>	2015-2016
<p>The JA Company Programme offers students an opportunity to start their own business and compete against other school businesses in the program under the guidance of mentors from industry</p> <ul style="list-style-type: none"> <li>• Learned to lead and coordinate a business and team members</li> <li>• Developed the ability to arbitrate and resolve internal conflicts between team members</li> <li>• Judged and made decisions objectively on behalf of the whole team</li> <li>• Raised capital by selling company shares, investing in product components, selling the final product and liquidating the company</li> </ul>	

## Education

Computer Engineering University of Toronto, St. George Campus	2017 - Present
Bilingual International Baccalaureate Diploma Discovery College, Hong Kong	2015 – 2017

## Extra-Curricular Activities

University of Toronto Badminton Club	2018 - Present
University of Toronto SKULE Badminton Club	2018
University of Toronto Hong Kong Student Association	2018
UBER Marketing Competition, Hong Kong	2017
Hong Kong University Public Speaking Workshop	2016
Class Representative	2016
Winter Prom Organization Team	2016
Discovery College Ultimate Frisbee Team Member	2013 - 2017
Discovery College Dragon Boat Team Member	2013 - 2017
Discovery College Badminton Team Member	2014 - 2016