Ho Wang Lam

Drexel University, Philadelphia, PA
Bachelor of Science in **Electrical Engineering** and **Computer Engineering**Minor in **Computer Science**

marcohwlam@hotmail.com +1 (702) 415-4273 Anticipated Graduation - June 2018 GPA - 3.3

HONORS AND AWARDS

AJ Drexel Scholarship - 2013 - Present

Dean's List, Drexel University - 2014

EXPERIENCE

Halo Labs.

Mar. – Sep. 2017

R & D Engineer

- Developed two layers dense SMT circuits, microcontroller for robotic microscope
- Knowledgeable in PCB proto-type debugging and troubleshooting. Proficient with SMT assemblies.
- Assembled the instrument that is selling to the first customer and calibrated the optical microscopic component
- Developed an intensity-based image registration application for stitching microscopic images
- Developed embedded C code for microcontroller to control 2000+ LED array and create visual effects

Rohde & Schwarz Asia Pte. Ltd.

Mar. - Sep. 2016

GUI Test Automation Engineer

- Designed and Implemented python test scripts that control EMC testing software written in C#/WPF and communicates with instruments such as R&S Receivers, signal generators, amplifiers and power meter, etc.
- Performed system integration testing in EMC chamber and controlled instruments simultaneously
- Translated professional EMC testing software from English to Chinese
- Worked in an Agile development with team of 26 people from 9 different countries and across two different time zones

EXELON - PECO ENERGY

Mar. – Sep. 2015

Reliability Engineer

- Analyzed equipment performance base on statistical model for a \$200 million proactive replacement project
- Assisted on emergency response, such as extreme weather conditions and catastrophic scenarios
- · Managed and maintained multiple cable history databases for all the primary cable in Philadelphia
- Built statistical model base on 17 years of failure events to understand the hazard function of aging equipment
- Developed a Cost/Performance Optimization program for reliability enhancement
- Maintained current equipment management system (in Visual Basic)

Drexel University - Engineering Design Projects

Mar. – Jun. 2014

Developer- Remote Heart Status Monitor

PROGRAMMING LANGUAGES

Array languages (e.g. MATLAB/Octave)

- Designed the implemented electric circuit for remote heartbeat sensor in a team
- Developed effective amplification and filtering circuit for the sensor unit
- Processed and realized the data using microcontroller and Bluetooth
- Fabricated the device to be compact, portable, and energy efficient

Object-Oriented (e.g. C++, Java, etc.)						
	nming (e.g. Racket). 💶					
Python						
	<u>.</u>					
SQL						
VHDL						
	LANGUAGE					
Mandarin	Cantonese	English				
Mandarin	Cantonese	English				

COMPUTER KNOWLEDGE
Microsoft Word, Excel
Microsoft PowerPoint, Access
PC hardware
Unix/Linux
Windows 10
Creo, AutoCAD
Adobe Photoshop, Premiere
Unix/Linux

10
10
10