**SHERMAN CHOW HO CHING**

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# EXPERIENCE

**WAVEMETRIX** London, UK, Oct 2017 – Till now

 *Research Analyst*

* Measured awareness levels, sentiment of discussions and topic of engagements
* Surveyed product’s performance among other competitors
* Investigated customer’s expectation, comments and feedbacks
* Identified and forecasted how engagement varies by locations

**LANCASTER MENTORING PROGRAMME** Lancaster, UK, Nov 2015 – Sep 2015

* Enhanced communication skills in areas such as leadership and interpersonal contact
* Increased profile of organisation among students and university staff

**PEPLINK** Hong Kong, Jul 2014 - Sep 2014

 *Summer Interns – Hardware Department*

* Executed various network performance testing including speed test, hard boot, soft boot, firmware update test, throughput
* Programmed a quality-control software for more than 30 products to run testing scripts
* Contributed to writing and debugging more than 10 scripts in Python
* Composed a searching database by Marcos in Microsoft Excel for product control
* Analysed and modified faulty products and designs

# EDUCATION

**UNIVERSITY OF EDINBURGH (CURRENT)** Edinburgh, UK, Sep 2017

*School of Engineering, MSc Sustainable Energy Systems*

* Projects:
	+ Hydro energy project design
		- Hydro turbine engine design
		- Environmental impact assessment
	+ Solar energy design
		- Solar resources analysis in areas
		- Solar panel electrical and system design
		- Installation and maintenance
		- Financial analysis
	+ Renewable energy market analysis
		- Renewable energy market research including low carbon and negative emission technologies
		- Renewable resources availability and restriction
	+ Wind energy design
		- Turbine blade design
		- Wind turbine electrical and system design
		- Grid network and connection design
* Research:
	+ Advanced cooling of electrical generators in Tidal Energy Converters
		- Laboratory testings, experiments and simulations
		- AutoCAD designs and drawings
		- Computational Fluid Dynamics modelling (CFD) through StarCCM+ and OpenFoam
* Comprehensive knowledge on how to quantify energy flows, environmental impacts and principal aspects of different generation technologies
* Ability to conduct a critical analysis of competing claims in the energy sector
* Evaluated options for renewable energy supply, distribution and utilisation
* Investigated and defined problems, including environmental and sustainability limitations, health and safety and risk assessment issue

**LANCASTER UNIVERSITY (GRADUATED)** Lancaster, UK, Jun 2016

*Faculty of Science and Technology, Bachelor of Engineering*

* Projects:
	+ Heat sink design
		- Heat sink mechanical design including conduction and induction
		- Heat transfer analysis
		- Thermal dynamics modelling
	+ Robotic Car design
		- Car chassis design
		- Power and engine design including mechanical and electrical
	+ Vibration Isolation System design
		- Hardware installation
		- Efficiency improvement
	+ 7th IMechE Undergraduate Design Challenge (Helicopter design)
	+ Business Development Project
* Academic: Upper second-class honours, major in Mechatronic Engineering
* Research:
	+ Lower carbon shipping through electric propulsion system
		- Design marine electric propulsion system in Simulink
		- Programmed and set scenario for practical simulations
		- Compare result between improved propulsion design and normal propulsion design

**RAIMONDI COLLEGE** Central, HK, Jun 2012

# SKILLS & ABILITIES

* Computer Language/Software: Python, Microsoft Visual C++, SolidWork, Simulink, Matlab, Microsoft Marcos, LT Spice, Ansys, AutoCAD, Autodesk, StarCCM+, OpenFoam, Solargis, RETScreen, Autodesk
* Language: Cantonese, English, Mandarin

## **EXTRA-CURRICULAR ACTIVITIES**

**RAIMONDI COLLEGE BRIDGE CLUB** Hong Kong, Jun 2010 - Jun 2012

 *Bridge Club Chairman*

* Arranged Interschool Bridge events such as Inter-School Bridge competition
* Organised talks, classes along with students; with an average participation of 40 and positive feedbacks

**RAIMONDI COLLEGE SWIMMING TEAM** Hong Kong, Jun 2006 – Jun 2012

 *Relay-Team Member (Butterfly)*

**LANCASTER ROWING CLUB** Lancaster, UK, Jun 2013

 *Member*

**Institution of Mechanical Engineers (IMechE)** Lancaster, UK, Sep 2015

 *Member*

## **ADDITIONAL**

* Music: Grade 8 for the Piano (ABRSM)
* Sports: swimming, basketball, badminton, wakeboarding, rock climbing