**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