Haydn Cheong

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Education

The University of Edinburgh   2018-2019
MSc Artificial Intelligence
Core modules:

- Machine learning and pattern recognition   • Reinforcement Learning
- Natural Language Processing   • Data mining
- Machine learning practical   • Machine Translation

The University of Sheffield   2015-2018
BEng Electronic and Electrical Engineering – Achieved 1st class honours
Core modules:

- Semiconductor Electronics   • Feedback system design
- Analogue and Digital Electronics   • Engineering software design
- FPGA architecture design   • Microcontroller programming

Received the "**Engineering International Scholarships**"   2016 - 2018

Awarded the "**Most Viable Business Proposition**" in UASC – accredited by IMechE.   July 2016

Related Projects

University of Edinburgh

- **Machine Learning group project -** Prediction of stock market index   Feb - Apr 2019
    - Still reviewing the literature. We are considering using a framework employing LSTM and Generative Adversarial Nets as an unsupervised machine learning algorithm.

- **Investigation of Convolutional neural network**   Dec 201
    - Experiments conducted on CNNs with different number of layers and applied different pooling methods, striding and dilation, with metrics of accuracy and speed.

University of Sheffield

- **Characterisation of AlAsSb APDs in Communication**   Oct 2018
    - Worked in a multidisciplinary team to design a ski helmet with augmented reality(AR) goggle. We designed the goggle from scratch, up to patent and marketing plan, ends with a ten minutes funding pitch and a finalized document.

- **Engineering You're Hired(EYH)**   Jan 2017
    - Worked in a multidisciplinary team to design a ski helmet with augmented reality(AR) goggle. We designed the goggle from scratch, up to patent and marketing plan, ends with a ten minutes funding pitch and a finalised document.

- **Sheffield Industrial Project scheme(SHIPS) project**   Oct - Dec 2017
    - We delivered solutions to the AMRC representatives to real-time monitor the temperature and pressure of a composite material prototype in Hot-press machine which Advanced Manufacturing Research Centre (AMRC) requested.

Work Experience

- Education Representative– Tertiary Education Services Office   2017 (Summer)
    - Was the vice- representative of a Beijing exchange program to serve 20 selected students from Macau.
    - Assisted the group for 28 days at the Beijing Language and Culture University. Promoted Macau culture to the local, coordinated with sub-group representatives.

- Administrator – Financial Services Bureau of Macau   2016 (Summer)
    - A government body to implement tax and organise the public accounting system and the budget of Macau. I worked on filing and documentation of confidential receipts.
    - Awarded a certificate as the best internship candidate in the organisation. Due to taking responsibility as an internship representative. Received tasks from seniors, then allocate and coordinate with other candidates for productive completion.

Skills

- **Teamwork** - Participated in **FYGER competition**, **SHIPs** and **EYH**, designing, implementing and presenting engineering projects as a multicultural and multidisciplinary team. Also accumulated knowledge in project management, human resource, law and finance throughout my course.
- **Languages** - Fluent in **English**, **Mandarin** and **Cantonese**.
- Achieved **German CERF level B1** as class representative.
- **Problem solving** - Took part in Global Engineering Challenge(GEC), in improving lifestyle of people in Cameroon and Cambodia, with a relatively low cost solution for eye disease detector and gyro with gyros balancing system with Arduino for Rice Seeder, respectively. Demo for the latter was created using 3D-printer.
- **IT skills** - **Python**, **LabVIEW (certified associate developer since Dec 2017)**, **HTML**, **C/C++**, **MATLAB**, **Verilog**.

Extracurricular

- 2018 – 2019: Attendance of Huawei seminar, Eric McAfee's seminar, AIBE summit 2019.
- 2018 – 2019: Active member of Edintelligence and CompSoc.
- 2018: A **co-founder** of the **Macau Society** of the University of Sheffield.
- 2016 – 2018: A **co-founder** and **secretary** of the **Sheffield Artificial Intelligence Society**. Organise weekly seminar and meeting, regular NAO robot session and publicity of the society activities.
- 2016 – 2017: **Event Coordinator and Executive Secretary** of **Entrepreneurs Society**. Organized seminar talks on business management, start-up stories and social events.
- 2016: Winner team of the ''**Start-up weekend**'' event in Sheffield.

Reference - Available on request.