

THEO FRANQUET

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EDUCATION

Imperial College London

- Meng in Electrical & Electronic Engineering, First Class Honours
- Focus on Machine Learning Topics, Optimization and Sustainable Energy Systems

2014 - 2018
London, UK

French International School

- Scientific Stream Baccalaureate Grade: 17.8/20

2006 - 2014
Hong Kong

ENGINEERING INTERNSHIPS AND RESEARCH

Natron Energy

R&D Intern

- In-house Battery Management System development for UPS application of Natron Energy's sodium-ion batteries
- End-to-end hardware, firmware and power efficiency algorithm development
- Battery control and state estimation algorithm development

April 2017 - September 2017
San Francisco Bay Area, USA

Imperial College London Power and Control Research Group

Machine Learning Driven HEV Control

- Sensor data stream processing for online neural network training applied to hybrid vehicle velocity estimation
- Neural network weight optimization method performance evaluation and comparison
- Supervised by Dr. Simos Evangelou, in cooperation with TVS Motors Company

July 2016 - September 2016
London, UK

ST Microelectronics

Device Engineering Intern

- Established training material for manual testing of wafer component parameters
- Experience working on advanced failure analysis in a clean room environment

July 2015 - September 2015
Singapore

ENGINEERING PROJECT

IoT Thermostat Design & Prototyping

Project Leader

- Leading a 7-student team, designing a connected thermostat displaying personalized energy consumption information and suggestions in real time, as the user sets up heating [PHP & MySQL Form, Raspberry Pi, HTML/CSS]
- Personal engineering work involved web development and database management

2016 - 2017
London, UK

PROGRAMMING/ADDITIONAL SKILLS

Intermediate

Verilog HDL, Bash

Proficient

Python, MATLAB, C, C++

Software & Tools

LabVIEW, Altium, Git, Shell, Linux OS, Microsoft Office

English

Fluent

French

Native

Mandarin

Intermediate

EXTRA-CURRICULAR

- CS231n: Convolutional Neural Networks for Visual Recognition, Stanford University (Online)
- Informal online article writing on Medium.com on clean energy solutions in society
- French and American citizenship, have lived in countries in Europe, Asia and America
- Committed handball player, member of the Imperial College team for 4 consecutive years
- Columbia University Entrepreneurship Summer Course, New York, USA
- Brown University Introduction to Engineering Summer Course, Providence, USA

Summer 2013

Summer 2012