

Theo Franquet

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EDUCATION

2014-2018 **Imperial College London – MEng Electrical & Electronic Engineering – 1st Class Honors in Year 3**

With a focus on Sustainable Energy Systems, Machine Learning and Data Science

Summer 2013 **Columbia University, New York – Entrepreneurship course**

Summer 2012 **Brown University, Providence – Introduction to Engineering course**

2006-2014 **French International School, Hong Kong**

ENGINEERING PROJECT

2015-2016 **Smart thermostat design and prototyping**

Leading a 7-student team, designing a connected thermostat that displays personalized energy consumption information and suggestions in real time, as the user sets up heating [*PHP & MySQL Form, Raspberry Pi, HTML/CSS, Social Studies*]

ENGINEERING INTERSHIPS AND RESEARCH

2017 **Natron Energy, SF Bay Area – Battery Management System Development – Internship (6 months)**

- Complete in-house BMS development for UPS application of Natron Energy's sodium-ion batteries
- PCB hardware design and robust firmware development using SPI, I2C, CAN communication protocols
- Battery control and state estimation algorithm development
- Experience working in a fast-paced start up environment, on high power energy storage solutions

Summer 2016 **Imperial College London – Intelligent Hybrid Vehicle Powertrain Control – Undergraduate Research (2 months)**

- Artificial Neural Network (ANN) development for future vehicle velocity estimation used in powertrain control system. Supervised by Dr. Simos Evangelou, in cooperation with TVS Motors Company
- Comparative study of various ANN training methods
- MATLAB script development to simulate continuous time ANN operation onboard a vehicle

Summer 2015 **ST Microelectronics, Singapore – Device Engineering – Internship (3 months)**

- Established training material for manual testing of wafer quality parameters
- Worked on production site, alternating between Lab, Fab and office, alongside Bipolar team

PROGRAMMING/ADDITIONAL SKILLS

Familiar: Prolog, Verilog HDL, HTML, CSS, ARM Assembler, PHP, MySQL

Proficient: MATLAB, C, C++, Python

Operating Systems: Linux, MS Windows

Engineering Design Software Experience: LabVIEW, MATLAB, Altium

Languages:

- Fluent in English and French
- Conversational in Mandarin

INTERESTS AND ACHIEVEMENT

- French and American citizenship, have lived in countries in Europe, Asia and America
- Took part in the Singapore Model United Nations in 2012 and 2013 to debate on the world's environmental issues
- Profound interest in clean energy solutions
- Committed Handball player