

Theo Franquet

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EDUCATION

- 2014-2018 **Imperial College London – MEng Electrical & Electronic Engineering – 2:1 Honors in Year 2.**
Year 3 modules include: Mathematics for Signals & Systems, Control Engineering, Electrical Energy Systems, Artificial Intelligence, Embedded Systems, Machine Learning, Real Time Digital Signal Processing, Managing Organizations.
- Summer 2013 **Columbia University, New York – Entrepreneurship course**
Designed a tech based product and established a complete business plan, as part of a 4-student team.
- Summer 2012 **Brown University, Providence – Introduction to Engineering course**
3 week introductory course on mechanical, electrical and biomedical engineering.
- 2006-2014 **French International School, Hong Kong**
French Baccalaureate Diploma with grade: 17.8/20 — 19/20 Physics; 18/20 Mathematics; 18/20 Biology.

ENGINEERING PROJECT

- 2015-2016 **Smart thermostat design and prototyping**
Leading a 7-student team, designing a connected thermostat that displays personalized information and advice in real time, as she/he sets up heating. Involves use of Raspberry Pi computer and database management.

ENGINEERING INTERNSHIPS AND RESEARCH

- 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.
 - Certified for probe station measuring in the Failure Analysis Lab (CASCADE Probe Station).
 - Worked on production site, alternating between Lab, Fab and office, alongside Bipolar team.
 - Gained experience working as part of a team in an industrial and clean room environment.

TECHNICAL/ADDITIONAL SKILLS

IT: *Programming Language:* Conversant with C++, Python, Prolog, Verilog HDL, CSS, HTML and ARM Assembler + frequent user of Matlab + experience using MySQL and PHP; *Operating systems & Editing:* Competent in use of Linux and MS Windows + LaTeX; *Engineering Design Software:* Competent in use of Labview, Matlab & Simulink and Altera Quartus II.

Languages:

- Bilingual in English and French.
- Conversational in Mandarin having studied it for 9 years and undertaken intensive Mandarin course at *Beijing Language and Culture University*, 2011.

INTERESTS AND ACHIEVEMENT

- Cultural awareness: French and American citizenship, have lived in countries in Europe, Asia and America.
- Member of Imperial College's Handball team playing in the inter-university league.
- Took part in the Singapore Model United Nations in 2012 and 2013 to debate on the world's environmental issues.
- Volunteered in a charity expedition in 2011 in NingXia province, China, to provide educational supplies to the region's primary schools.