

# THEO FRANQUET

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## EDUCATION

<b>Imperial College London</b> · Masters in Electrical & Electronic Engineering, on track for first-class honours (Top 30% of cohort) · Focus on Sustainable Energy Systems, Machine Learning Topics and Optimization	<i>2014 - 2018 London, UK</i>
<b>French International School</b> · Scientific Stream Baccalaureate Grade: 17.8/20	<i>2006 - 2014 Hong Kong</i>

## ENGINEERING INTERNSHIPS AND RESEARCH

<b>Natron Energy</b> <i>R&amp;D Intern</i> · 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 · Experience using SPI, I2C, CAN communication protocols · Battery control and state estimation algorithm development	<i>April 2017 - September 2017 San Francisco Bay Area, USA</i>
<b>Imperial College London Power and Control Research Group</b> <i>Undergraduate Research</i> · Neural network weight optimizing method performance evaluation and comparison · Sensor data stream processing for online neural network training applied to hybrid vehicle velocity estimation · Supervised by Dr. Simos Evangelou, in cooperation with TVS Motors Company	<i>July 2016 - September 2016 London, UK</i>
<b>ST Microelectronics</b> <i>Device Engineering Intern</i> · Established training material for manual testing of wafer component parameters · Experience working on advanced failure analysis in a clean room environment	<i>July 2015 - September 2015 Singapore</i>

## ENGINEERING PROJECT

<b>IoT Thermostat Design &amp; Prototyping</b> <i>Project Leader</i> · 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	<i>2016 - 2017 London, UK</i>
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## PROGRAMMING/ADDITIONAL SKILLS

<b>Intermediate</b>	Verilog HDL, Bash
<b>Proficient</b>	MATLAB, C, C++, Python
<b>Software &amp; Tools</b>	LabVIEW, Altium, Git, Shell, Linux OS, Microsoft Office
<b>English</b>	Fluent
<b>French</b>	Native
<b>Mandarin</b>	Intermediate

## EXTRA-CURRICULAR

· 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	
· Took part in the Singapore Model United Nations in 2012 and 2013 to debate on the world's environmental issues	
· Committed handball player, member of the Imperial College team for 4 consecutive years	
· Columbia University Entrepreneurship Summer Course, New York, USA	<i>Summer 2013</i>
· Brown University Introduction to Engineering Summer Course, Providence, USA	<i>Summer 2012</i>