# Keidi Kapllani | CV

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## Education

**Imperial College London**                                                                       **London, UK**
*MEng Electrical Electronic Engineering*                                          *September 2014 - present*

- *4th Year Modules:* Pattern Recognition, Digital Image Processing, Optimisation, Signal Processing and Machine Learning for Finance, Traffic Theory & Queueing Systems
- *3rd Year Modules:* Advanced Linear Algebra, Digital Signal Processing, Biomedical Electronics, Introduction to Machine Learning, Advanced Signal Processing, Embedded Systems
- *Upper Second Degree Expected*

**St. Clare's College**                                                                                 **Oxford, UK**
*International Baccalaureate Diploma*                                          *September 2012 - May 2014*

- Final Grade: 40/45
- *Higher level:* Mathematics, Economics, Physics
- *Standard level:* Chemistry, English B, Albanian A
- Received an Academic Scholarship (90% of boarding and tuition fees) (2012-2014)

## Work Experience

**Schlumberger Ltd**                                                                               **Gatwick, UK**
*Software Engineering Placement*                                          *April 2018 - September 2018*

- Worked in the REMS (Research, engineering, manufacturing and sustaining) team of Schlumberger, the world's largest oilfields services company
- Translated an algorithm which crunches and analyses seismic data, named Omega Seismic Function Module (SFM), from MATLAB programming language into C++
- Extended the project, after early completion of my first task, to expanding the potential inputs of the algorithm into seismic data coming from different layers of the Earth
- Handled, in coordination with my manager, the developing, beta testing and commercial release of the algorithm

**Horeal ExpoGroup**                                                                              **Tirane, AL**
*IT support and database management*                                          *January 2016 - March 2016*

- Using barcode technology I designed a ticket entry system with pre-generated unique random ID
- Worked on crunching the database into simplified leads that in turn generated targeted advertising
- Created entry/log system for validating ticket entries to track conversion rates of the targeted advertising

**IPSO, Alliance Laundry Systems**                                                            **Tirane, AL**
*Support Engineer*                                                          *August 2015 - December 2015*

- Worked in a team of 4 engineers in providing technical support and after point of sale care to clients who purchased industrial washing machines from the firm
- Gained client exposure early on, both at the point of sale and installation, as well as dealing with various complex engineering issues

## Projects

o **Wine Rating Predictor** - Training and testing a machine learning model to be able to predict the rating of red and white variants of the Portuguese "Vinho Verde" wine based on objective parameters (e.g pH). The project explored different approaches to classification algorithms and their advantages/disadvantages in the context of this dataset.
o **SwimTime: Swimming IoT Device** - Designed and implemented, using a list of available sensor, an IoT device which is connected to an online platform using the MQTT protocol, used to measure pool lap times.
o **WiSP: Wireless Charge Sharing device** - Designed and implemented from scratch a device which when connected to a phone allows it to share its charge with another phone capable of wireless charging. Also designed an app that manages geo-matching and share requests between users.

## Skills

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| **Programming Languages** | C++, MATLAB , Assembly, Verilog, HTML5, CSS3, Python, JavaScript |
| **Software & Tools** | LaTeX, Microsoft Office Suite, Adobe Photoshop, Adobe Illustrator, Final Cut X |
| **Languages** | Albanian (Native), English (Professional Proficiency), Italian (Professional Proficiency), French (Basic) |