

/([A-Z][a-zA-Z]+)+Engineer/g

WORK EXPERIENCE

- 2016 → 2023 ○ **Algorithm Development and Validation at Thales Alenia Space**
Review, Coding, Simulation and Testing of various modulation and coding schemes for TT&C Secure Receiver and Emitters: FSK, PSK, Frequency-Hopping Spread Spectrum, Time-Frequency Estimation, Adaptive Throughput, Transmission Security, Synchronisation, Beacon and Ranging.
- Summer 2014 ○ **Software Developer Intern at LIRYC (view [abstract](#))**
Human Machine Interface Development for an intra-MRIS (Magnetic Resonance Imaging System) electrical positioning system at the Electrophysiology and Heart Modeling Institute of Bordeaux.

ACADEMIC PROJECTS

- 2015 ○ **MSc Thesis at Imperial College London (view [thesis](#))**
Underwater images restoration using a physics-based approach to counter the effects of attenuation and scattering in murky water.
- 2014 ○ **Second Year Research Project at ENSEEIHT**
Image preprocessing (e.g. Wavelet transform) for change detection in multivariate statistical analysis (clusters detection) between infrared, optical and SAR satellites images.

EDUCATION

- 2014 → 2015 ○ **Imperial College London**
MSc in Communications and Signal Processing (Merit)
Main courses include Image and Signal Processing, Communication Theory, Traffic Theory, Network and Web Security, Machine Learning for Computer Vision.
- 2012 → 2015 ○ **ENSEEIHT**
Diplôme d'Ingénieur from a Grande École, Electronics and Signal Processing
Main courses include Image and Signal Processing, Analogue and Digital Electronics, Computer Sciences and Microwave Engineering.
- 2010 → 2012 ○ **Pierre de Fermat Preparatory Course**
Two-year intensive undergraduate course in Mathematics, Physics and Engineering Sciences.

IT SKILLS

Engineering Tools: Linux, Matlab, Octave, GCC, GHDL, (...)
Programming languages: C/C++, VHDL, Python, Bash, Javascript, (...)

LANGUAGES

English : fully fluent. TOEIC : 990/990 ; TOEFL : 104/120
French : native speaker