Maxime BORIES
maximebories@gmail.com
maximebories.com
+33 (00) 6 08 14 11 14

Software Developer and Network, Communications, Signal Processing Engineer

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

References available upon request