Maxime BORIES
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06 08 14 11 14

SIGNAL PROCESSING ENGINEER

WORK EXPERIENCE

2016 → 2022 — **Algorithm Development and Validation at Thales Alenia Space**
Review, coding, simulation and testing of various modulation and coding schemes for TT&C receiver and emitters: FSK, PSK, Frequency-Hopping Spread Spectrum, Time-Frequency Estimation, Adaptive Throughput, Transmission Security, Synchronisation, Beacon, Ranging

Summer 2014 — **Software Developer Intern at LIRYC**
Development of a software interface for an intra-MRI electrical positioning system at the Electrophysiology and Heart Modeling Institute of Bordeaux

ACADEMIC PROJECTS

2015 — **MSc Thesis at Imperial College London**
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 obtained with 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, 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

Space enthusiast !

References available upon request