



Olivier CHURLAUD

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ÉCOLE
CENTRALE LYON



Electrical Engineer

**Specialization: Signal and Information
processing**

Education

- 2014 – 2016** **Double degree at TU Berlin: Master Degree Electrical Engineering**
Main emphasis: Communication systems, Information theory, Signal processing
- 2012 – 2016** **École Centrale de Lyon: Engineering Degree**
- 2010 – 2012** **Elite undergrad program:** Lycée Pierre de Fermat in Toulouse (31)
Preparation for the competitive entrance examinations to French engineering school

Experience

- 2015 – 2016** **Master Thesis and Student job at BESSY II (Berlin, DE)**
Localization and correction of orbit perturbations in BESSY II storage ring. (Signal processing on particle accelerator in Berlin, DE)
Control theory – Signal Processing – C++ Program – Python – MATLAB
- 2014** **Research internship with F. P. Andriulli (Télécom Bretagne)**
Analysis and design of technics and tools for experiments and computation on EEG material
- 2013 – 2014** **Research Project: Design of a node connecting WPAN and WLAN networks**
In collaboration with the INL Laboratory (Lyon)
C Program – KICAD – Microcontrollers (Microchip)
- 2012 – 2013** **President of the ECLAIR students association** (managed network and IT for more than 700 students)
Setup of a cloud storage system (based on ownCloud) – Network Administration – Design of a meta-website for the students and alumni (Symfony2)
- Design of a tool to measure extremely low frequency magnetic fields**
In collaboration with the Ampère Laboratory (Lyon)
MATLAB program – Setup of a magnetometer on a chip
- 2009 – 2010** **Research project in particle physics with CERN and IN2P3**
Received first prize in two science competitions (Olympiades de Physique, Fêtes de la Science)
Particle physics – Experiments – Popularization – Design of a board game on the LHC topic
- 2008 – 2009** **Writing workshop in partnership with OuLiPo** (Ouvroir de Littérature Potentielle: group of french writers who work by choosing style and content constraints)

Professional expertise

- Management** Head of project, team coordination, relation with administration
- Science** Signal processing, Filter design, Control theory, Electromagnetism, Mathematics, Channel and Source coding
- Computer Science** Programmation, Machine Learning – **Program** Python, C/C++, MATLAB, ~~TeX~~ – **System and Network administration** Linux, Bridging, VLAN, Virtualization KVM, Apache2
- Languages** **English:** Fluent, TOEFL 613pts (B2/C1)
German Professional skills: > B2 (European notation system), spent 2 years in Berlin

Interest

- General knowledge** Literature: Classics from the XIXth and XXth century, Nouveau Roman
Music, Cinema: French *Cinéma d'auteur* and 40-50s american movies
- Sport** Mountain sports: Rock climbing, hiking, ski
- Open Source** Open source enthusiast, KDE Contributor