



**Olivier CHURLAUD**

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FRANCE



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
- 2007 – 2010**      **Lycée Pilote Innovant International (86): Scientific Baccalauréat** (High School) – With honors

## 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, Faites 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, ~~LaTeX~~ – **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