

Jean-Loup Christen

Calibration and data engineer, PhD

16B impasse Ginestet

F-31700 Blagnac

✉ +33.6.32.01.49.87

✉ jean-loup.christen@centraliens.net

born December 23rd, 1988

Driving license B

Experience

2017– **R&D Engineer, Integra Metering, Blagnac.**
Calibration of ultrasonic water meters: design of experiments and development of methods for test data processing

2013-2016 **Optimisation of noise transmission through composite structures and foams, École Centrale de Lyon, Lyon, France.**
PhD: development of Vibro-acoustic models with Matlab, sensitivity analysis, acoustic tests in reverberant chambers, laser vibrometer measurements.

2012 **Impact of the tyre on vehicle durability, Renault Technocentre, Guyancourt, France.**
Multibody calculations (Adams/car), post-processing of experiments using Matlab

2011 **Development and adaptation of car-carrier trailers for production in India, Lohr India, Pune, India.**
CAD, simulations, production

2010-2011 **Development of a piezoelectric motor for application in automotive equipment, LGEP, Gif/Yvette, France.**
Survey of existing linear and rotating piezomotors, design of a prototype.

2010 **Blue-collar internship, Volvo Powertrain France motor plant, Vénissieux, France.**

2009-2010 **Design of a fuel-efficient vehicle taking part in the Shell Eco-marathon, Student project.**
Within a 7-member team, treasurer, design of steering system (CAD, optimisation).

Education

2013-2016 **PhD, Acoustics and Vibrations, École Centrale de Lyon, France.**

2008-2012 **Mechanical & Aerospace Engineering, École Centrale Paris, France.**
Structures for transports: Structural dynamics, vibration control, materials, coupled systems

2006-2008 **Intensive preparatory class specialized in Mathematics and Physics, Lycée Kléber, Strasbourg, France.**

Skills

Programming **Matlab, Python,**
Linux environment

Numerical simulation **FEM:Comsol, Ansys, development of in-house code**

Acoustics **SEA, signal processing**

Languages

French mother tongue

English fluent

German fluent

Russian rusted

Hobbies

Hobbies game of go, reading, improvisation theatre

Sports Mountain bike, ski