

Jean-Loup Christen

Calibration and data engineer, PhD

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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**, *LGEF*, 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 FEM:Comsol, Ansys, development
simulation 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