

Anne MAREC

Ph.D student - Engineer

address: 17 Rue du Bourg-Belé, 72000, Le Mans, France
phone: +33(0)6.80.40.54.18 - email: anne.marec@free.fr
06/02/1981, French

Work Experience

- 2005-2008 : **Teaching assistant** at the University of Le Mans, France.
Subjects taught : Signal processing, Vibration, Physics, Electroacoustics.
- 2005 : **Research Internship** (4 months) at the University of Le Mans, France.
Work completed : Damage and fracture analysis of polymer-based composite materials with the use of acoustic emission.
- 2003-2004 : **Engineer Internship** (7 months) at CTTM (<http://www.cttm-lemans.com>), France.
Work completed : Application of acoustic holography for the industry.
- 2002 : **Internship** (3 months) at French Manufacturer of Pianos, France.
Work completed : Quality papers.

Education

- 2005-2008 : **PhD at Acoustic Laboratory of Le Mans** (LAUM: <http://laum.univ-lemans.fr>).
Title : Damage characterization of heterogeneous materials: acoustic emission and non linear acoustic.
Keyword : Composite materials; Damage; Fracture; Acoustic emission; non linear acoustic; Pattern recognition; Wavelet analysis.
Paper published in Mechanical Systems and Signal Processing, 2008.
- 2004-2005 : **Master degree** in engineering mechanics and acoustics at the University of Le Mans, France.
- 2001-2004 : **School of Engineering** (ENSIM: <http://ensim.univ-lemans.fr>).
Instrumentation and measurements in industry for engineers, specialization in acoustics and vibration.
Training project : Characterization of the mechanical and acoustic properties of porous materials, at LRPC laboratory, France.
- 1999-2001 : **Advanced University-level preparation (Maths Sup/Spé preparing school with intensive mathematical program)**
Specialization in mathematics, physics and chemistry.
- 1999 : **French Bachelor** in Science.

Special Skills

- Scientific** : Acoustics, Vibrations, Signal processing, Composite materials, Non linear Acoustics. Acoustical measurements (emission acoustic, non linear acoustic, acoustic holography).
- Social** : Team work, Project management, Pedagogy and educational methods.
- Computer** : Finit element method (IDEAS, RDM06, FEM-Tools), Mathematical programming (MATLAB, C, C++, Octave), Mechanical conception and designing (SOLIDWORKS), Acquisition and virtual instrumentation (LMS, LABVIEW).
- Language** : French, English (875 points TOEIC), German.