

Ludovic Wagner

<http://www.ludovic-wagner.com/>

Address: 7 rue des Vergers, 67370 Truchtersheim, France

Email: ludovic.wagner67@gmail.com

Mobile Phone: (+33) 7 71 88 64 28

Mobility: Global – Personal Vehicle

Looking for a position as an engineer in mechanics

Engineer in Structural Mechanics

- Mechanics
- Design
- Simulation
- Process
- Hydraulics

Education

Master of Sciences – Engineer Diploma (*September 2011*)

ISAE-ENSMA: Mechanics and Aeronautics Postgraduate School – Poitiers, France

- **Specialisation:** Structural Mechanics
- **Relevant courses:** Fluid and Solid Mechanics, Heat Transfer, Energetic and Embedded Informatics

2-year intensive Training in Technology and Industrial Sciences prior to engineering studies (*July 2008*)

Blaise Pascal High School – Colmar, France

- **Prerequisite:** A-Level in Mechanics passed with Honours Mention (*June 2006*)
- **Achievement:** Grade 49 out of 703 in the national competitive entrance admission

Professional Experience

Technical Sales Representative

Hydrokit UK (*hydraulic components retailer*) – Ipswich, United Kingdom

May 2015 – Dec. 2016

Hydrokit (*French headquarters*) – La Roche-sur-Yon, France

Feb. – April 2015

Assignments: Design and sales of electro-hydraulic bespoke solutions

- Dealt with customers' enquiries and investigated prospects (*agriculture, construction, lorry, etc.*)
- Designed electro-hydraulic kits with the design department
- Developed scripts to update product descriptions in different languages
- Took part in exhibitions (*SIMA, Midlands Machinery, LAMMA*)

Consultant in Mechanical Design

March – Dec. 2014

Kuhn SAS Group (*agricultural mobile machinery manufacturer*) – Saverne, France

Assignments: Redaction of technical instructions

- Wrote machine assembly instructions for dealers and fabrication guidelines for internal labourers
- Updated parts lists and exploded views

Consultant in Numerical Simulation

February – April 2013

MFP Michelin (*tyres manufacturer*) – Clermont-Ferrand, France

Assignments: Expertise on Abaqus

- Validated landmark post-processing scripts
- Simulated compression of a reinforced rubber sample

Research Engineer in Composite Materials

Sept. 2011 – Dec. 2012

Clément Ader Institute (*laboratory in shaping processes*) – Albi, France

Subject: Simulation of a reinforced thermoset moulding

- Identified constitutive models with global non-linear optimisation
- Simulated moulding process (*curing, injection and mechanical resistance*)

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Internships

Final Internship in Numerical Simulation

April – August 2011

Aurock (*concrete reinforced forming die manufacturer*) – Albi, France

Subject: Simulation of titanium alloy hot forming processes

- Identified elasto-viscoplastic behaviour and thermal dependence
- Simulated complex industrial parts (*explicit, quasi-static solicitation*)

Engineering Internship in Mechanical Design

June – Sept. 2010

Bongard (*bakery oven factory*) – Holtzheim, France

Subject: Motorization of an integrated lifting carrier

- Integrated electrical gear motor and drive belt transmission
- Designed and experimented a prototype

Technician Internship as an Operator

July 2009

SNCF Bischheim's Technicentre (*TGV maintenance workshop*) – France

Purpose: Replacement of bogie driven-axle support bearings

- Monitored batch traceability
 - Performed non-destructive ultrasound experiments
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Academic Projects

Purpose: Simulation of a composite wing spar

Oct. 2010 – March 2011

Purpose: Design of a wind tunnel conveyor (*simulation of ground effect*)

Jan. 2010 – May 2010

Computer Skills

Computer Aided-Design: Catia V5, Creo Parametric, Pro/Engineer Wildfire, Windchill

Numerical Simulation: Abaqus, Patran, Moldflow Insight, Comsol Multiphysics

Programming: Scilab, Visual Basic, HTML, LabVIEW

ERP: AS400, Proginov

Drawing: Illustrator, Photoshop

Languages

- French – Native speaker
 - English – Fluent, TOEIC: 845/990 (*January 2015*)
 - German – Moderate (*preparation of the Goethe Zertifikat B1 for Mars 2017*)
 - Russian – Elementary
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Activities

Cycling: Competitive road races (*Etape du Tour, Challenge Rotor in 2012*)

Model aircraft: Construction and remote control since 12-year old