

Franck LE RHUN

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Born in 1983 (23 years old), French nationality

Engineer in Mechanical and Thermal Science

Academic background

- **2003 / 2007** : Student engineer at ENSMA (École Nationale Supérieure de Mécanique et Aérotechnique) of Poitiers. Solid mechanics, fluid mechanics, computer science, thermal engineering, engine, aerodynamic and materials science. Specialised in heat transfer. Diploma obtain in september 2007.
- **2001 / 2003** : Intensive post secondary program in physic and technological skills preparing for the nationwide competitive entrance examination to french graduate engineering schools in Nantes. Mathematics, machining, automation, technical drawing, mechanism conception.
- **2001** : Scientific a-level after three years in Lycée La Colinière in Nantes.

Work experience

- **April to October 2007** : Final school project at Valeo Engine Management System. Creation, integration and validation of a *thermal model of EGR cooler* for FLUENT. Thermofluid simulation by porous material with web interface for pre and post treatment. 20 % gain on numerical precision and 15% on licence disponibility.
- **November 2006 to March 2007** : Research on the improvement of a *combustion model*, to validate strategies in the use of hydrogen for spark-ignited engines.
- **June to October 2006** : Engineer trainee in LET (Thermal Studies Laboratory, UMR 6608), report on the *use of natural gas and hydrogen on internal combustion engine and energy recovery systems*. Successful campaign on Honda engine in terms of pollution and efficiency in collaboration with Vincent Le Gouic.
- **July to September 2005** : Mechanical designer in Valttec, *CAD (Catia V5) on wind tunnel measurement systems*. Building and validation of prototypes at Centre d'Études Aérodynamique et Thermiques of Poitiers. Cinematic and control of an active spoiler for PSA.
- **July to September 2004** : Trainee in SAFT Poitiers, space Dpt. *Specifications* for a software used for the matching of electrodes for satellite batteries. Database for hazardous and perishable materials, now used in the whole factory.

Skills

Languages

- **French** : first language
- **English** : TOEIC 920, many travels in Great Britain. Technical knowledges
- **German** : basic notions
- **Russian** : beginner

Computer Science

- **Office automation**, multimedia and Internet on Macintosh, Unix, Linux and Windows
- **Programming in** Ada, C, Fortan 95, Matlab, Python, HTML 4.0, L^AT_EX 2_ε, PHP 5, CSS 2
- **User of** SolidWorks, Catia V5, FLUENT, GAMBIT, ESAcap, AMESim, Gnuplot
- **Knowledges on** Flotherm, Abaqus, I-Deas, FEMGV, Simulink, Labview

Other experiences

- 5 and 6 April 2006, Mobility and Advanced Transportation Forum in Futuroscope. Driver and attendant for trial on Lexus RX-400 Hybrid, stand animation.
- 2004/2007 : Events manager : glider meetings, diplomas ceremony, open day...
- Winter 2006 : Preparation of a vehicle for the Renault 4L Trophy Rallye
- 2004/2006 : President of the "Junior Entreprise" ENSMA Conseil
- 2004/2005 : Home teaching in french and mathematics, a-level
- 2002 : Microlight pilot licence, radio qualification
- 2001/2002 : Motorman assistant in the Centre National d'Ultra Léger Motorisé
- 2000 : Car driving licence, long trail experience
- 1999 : AFPS, European first-aid certificate

Hobbies and interests

- Glider and microlight pilot
- Webmaster
- Car repairs
- Cooking
- Novella writing