

# Adrià Borràs Nadal

## Mechanical Engineer in Renewable Energies

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### Education

- 2011 **Master's Degree IFP**, *IFP School*, Rueil Malmaison, France.  
Energy and Products, apprenticeship during 16 months, IFP School/Sogefi Filter Division
- 2009 **Erasmus Program**, *Universität Stuttgart*, Stuttgart, Germany.  
Specialty semester, Energy departments, German and English courses
- 2005-2010 **Master's Degree INSA School of Engineering**, *Insa de Rouen*, Rouen, France.  
Mechanical Specialty, applied to Fluid Mechanics

### Experience

- July 2017  
to present  
(1 year) **Fluid Mechanics Research & Innovation Engineer**, *IFP Energies Nouvelles*, Rueil Malmaison, France.  
Involved in innovation projects dealing with Renewable Energies :  
- Hydrodynamic CFD studies for Floating Offshore Wind Turbines  
- Thermal Behavior CFD studies for Thermal Energy Storage Systems in a AA-CAES system
- January 2012  
to July  
2017 (5,5 years) **Research & Innovation Engineer**, *IFP Energies Nouvelles*, Rueil Malmaison, France.  
- In charge of research and innovation activities for engine and powertrain development purposes  
- Involved in European projects with research and industrial partners to improve engines efficiency  
- Publications of technical papers in different international meetings  
- Experimental measurements in test bench (multi/mono cylinder facilities)  
- Analysis of engine relationships and interactions in multi-dimensional parameter spaces  
- Basic knowledge of metrology and control engineering  
- Knowledge of modeling and simulation (Design of Experiments technique)  
- Teaching experience for Master's students learning calibration in automotive sector
- September 2010  
to December  
2011 (1,5 years) **Research & Development Engineer**, *Sogefi Group*, Vire, France.  
- Industrial apprenticeship during IFP school master period  
- Involved in filtration activities of oil and fuel engine systems  
- Simulation tasks to estimate CO2 costs of oil modules in engine lubrication systems
- Mars 2010 to  
September  
2010 (6 months) **Engineer Internship**, *Robert Bosch GmbH*, Stuttgart, Germany.  
Implementation of limitations maps for a downsized gasoline engine in a Matlab simulation tool  
Method-oriented working, OD simulation tools, analysis of experimental data

### Skills

#### Languages

Catalan	<b>Native speaker</b>	<i>Official language of Catalonia</i>
Spanish	<b>Native speaker</b>	<i>Born and living in Barcelona until 1998</i>
French	<b>Bilingual</b>	<i>Have been living in France since 1998</i>
English	<b>Fluent</b>	<i>Score of 795 at the Toeic test</i>
German	<b>Intermediate</b>	<i>Have lived in Stuttgart for 1 year</i>

#### Computer

Programming	Matlab, Python, C/C++, FORTRAN	Software : OpenFOAM, ANSYS, Gambit, CATIA, Simcenter Amesim, Lab-view, Office, Unix, $\text{\LaTeX}$
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### Interests

- Hobbies Singer/guitarist in a rock band, drummer in a Batucada band, interest in ecology
- Sports Windsurfing, swimming, tennis, footing