

## Contactar

[www.linkedin.com/in/loïc-bastard-48607229](https://www.linkedin.com/in/loïc-bastard-48607229) (LinkedIn)

## Aptitudes principales

Mechanical

Numerical Simulation

Product Management

## Languages

Chinese (Professional Working)

Francés (Native or Bilingual)

Español (Native or Bilingual)

Inglés (Native or Bilingual)

Catalan (Limited Working)

## Certifications

China Specialty recruited expert  
(1000 experts program)

## Publications

**MATCHING EXPERIMENTAL AND  
NUMERICAL DATA OF DYNAMIC  
WIND TURBINE LOADS**

Non-linear dynamic analysis of a  
wind turbine direct drive generator by  
a coupled FEM-MBS approach.

# Loïc Bastard

Co-founder of Qnetic - Expert in Kinetic Energy Storage and Wind Energy

Changning, Shanghai, China

## Extracto

Skills:

Numerical Simulation ; Finite Elements ; Flexible Mechanisms ;  
Multi-Body-Dynamics; Rotor Dynamics ; Wind Turbines Dynamics ;  
Project Management ; Product Management ; People Management

---

## Experiencia

Qnetic

Engineering Director and Co-founder

octubre de 2021 - Present (1 año 3 meses)

Shanghai, China

Envision Energy

6 años 5 meses

Head Of Department

febrero de 2017 - mayo de 2021 (4 años 4 meses)

Changning District, Shanghai, China

Digital Methods and Products

Deputy Director Digital Model

enero de 2015 - mayo de 2021 (6 años 5 meses)

Brussels Area, Belgium

In charge of Flexible Multi Body Dynamic Simulation of the whole mechanical system.

Siemens PLM Software

10 años 4 meses

Product Manager of SAMCEF Wind Turbines

enero de 2012 - diciembre de 2014 (3 años)

Liege Belgium

Responsible for the software SAMCEF Wind Turbines in terms of Product Management and Business Development.

#### Product Management / Inbound Activities:

- Customer relationship
- Market analysis
- Drive and develop product strategy and road map
- Specify new development

#### Product Management / Outbound Activities:

- Ensure product quality
- Develop product marketing and visibility
- Train Company sales and pre-sales force

#### Business Development:

- Strong relation with Customers and Prospects
- Proposal redaction for software and engineering services
- Definition of the commercial strategy

#### Wind Energy Application Group Coordinator

enero de 2010 - enero de 2012 (2 años 1 mes)

Barcelona-Spain

Responsible of the Wind Energy Business Unit (in parallel with my Project Engineer activities):

- Activities Coordination around the Wind Energy Market. (Business development, Marketing, Trainings, Engineering Services).
- Software development coordination for the new environment for Wind turbine Dynamic Analysis: SAMCEF Wind Turbines (Customer and prospects relation, Development specifications redaction).

#### Project Engineer - Numerical Simulation

septiembre de 2004 - enero de 2012 (7 años 5 meses)

Paris-France until dec 2006 ; Barcelona-Spain from dec 2006

In charge of Engineering projects realisation, Numerical simulation mostly on flexible mechanisms.

Examples of projects achieved:

- Dynamic analysis of a Drive train and correlation with experimental results (Wind Turbines)
- Fatigue analysis on a composites blade (Wind Turbines)
- Load computation for Wind turbine certification according to IEC Norm (Wind Turbines)
- Complete sizing of an Oxygen tank in a cryogenic environment (Defense - Marine application)
- Modeling and optimization of a Variable Stator Vane system (Aeronautic)
- Rotor Dynamic analysis of a gas turbine (Energy)

- Structural analysis of a concept car in full composite (Automotive)
- etc.

#### Altran France

##### Stress Engineer

noviembre de 2003 - agosto de 2004 (10 meses)

Snecma Villaroche - France

- Modeling of Flexible Mechanism System: Variable Stator Vane, submitted to large displacements and contact.
- Test and validation of an in-house tool for flanges and screw analytical calculation (ECREVIS)

#### Snecma

##### Engineer Internship

marzo de 2003 - septiembre de 2003 (7 meses)

Villaroche - France

Involved in the European Project SYNAMEC: Synthesis Tool for Aeronautical Mechanisms Design.

[http://www.aerodays2006.org/sessions/B\\_Sessions/B1/B14.pdf](http://www.aerodays2006.org/sessions/B_Sessions/B1/B14.pdf)

Activities:

- Software test
- Requirements and corrections follow-up
- Flexible mechanics modeling and optimization

---

## Educación

#### ENSTA Bretagne

Engineer's degree, Computational Science applied to Mechanics · (2001 - 2003)

#### Université de Reims Champagne-Ardenne

Ingenieur Maître (Master of Engineering), Material Science · (1999 - 2001)

#### Université de Bretagne Occidentale

DUT (two-year diploma from a university institute of technology), Mechanical engineering and computer-integrated manufacturing · (1997 - 1999)