

# Nathan Guignard

## Mechanical Engineer Renewable Energies looking for a PhD thesis

### Experiences: Research & Development Engineer

2018  
(6 months)

#### R&D ENGINEER FLOATING WIND

Innosea  
Nantes, France

- Development and coding of a floating wind software (STATIONIS)
- Work on methodology of calculations on dynamic umbilical power cables
- Comparison of floating wind calculation codes (Flexcom, OrcaFlex...)

2014-2015  
(11 months)

#### R&D ENGINEER WIND ENERGY

PUCP LIMA  
Lima, Peru

- Creation of simulation environment for vertical axis wind turbines (ANSYS Fluent)
- Improvement of an existing blade design
- Verification of my project by an ANSYS consulting firm (ESSS)
- Publication of my research project

2013  
(4 months)

#### R&D ENGINEER, FLUID MECHANICS

Manhattan College  
New-York, USA

- Mastery of ANSYS Fluent and finite element methods
- Design improvement of cooling tubes for rocket boosters
- Various other projects on fluid mechanics

### Academics: A broad approach to engineering followed by a focus on Marine Renewables

2017-2018

#### MASTERE ENERGIES MARINES RENOUVELABLES

ENSTA Bretagne  
Brest, France

- Specialization in Marine Renewables (offshore wind, tidal, wave...)

2014-2016

#### MAESTRIA EN ENERGIA (MECHANICAL ENG.)

PUCP Lima  
Lima, Peru

- Double Degree in agreement with ECAM Lyon
- Specialization in the energy sector (solar, wind, oil&gas...)

2010-2015

#### INGENIEUR ARTS & METIERS (MECHANICAL ENG.)

ECAM Lyon  
Lyon, France

- Multidisciplinary approach to engineering (electronics, mechanics, IT, Structures, Manufacturing, Human Relations training...)

### Extensive experiences abroad & volunteering work

1996-2016

#### LIVED IN SEVERAL COUNTRIES

Peru (1 year), Spain (5 years), Canada, USA (1,5 year)

- Perfect fluency in English (TOEIC 975)
- Perfect fluency (european level C2)

2016-2019

#### VOLUNTEER WORK & NGO INVOLVEMENT

SafeWaterCube (SWC)  
Nantes, France

- SWC is a water-filtering fountain used in areas deprived of clean water (developping countries). It uses no electricity and no chemicals
- Project lead on improvement of fountain design (CAD ...) and prototyping of a fountain kiosk autonomous machine.
- Help with document redaction, translation, CAD and assembly



### Introduction

I am a 26 year old engineer freshly specialized in Marine Renewable Energies after a stay at ENSTA Bretagne.

I am an honest and generous person who is trilingual and multicultural.

My experience in research projects as well as my curiosity towards renewables and their means of energy storage make me the perfect candidate for a PhD.

### Contact

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- ✉ nate.guignard@gmail.com
- 🌐 LinkedIn
- 🚗 European drivers licence + Vehicule

### Skills

ANSYS WORKBENCH	●	●	●	●	●
CAD (SolidW, ProEng Creo)	●	●	●	●	●
Pack Office	●	●	●	●	●
Programming VBA, Excel, Java, Matlab Python, C#	●	●	●	●	●

### Achievements

Scientific Publication R&D Project Wind Energy  
PUCP Lima, Peru: 2014-2016

3rd place at Fest'Innov, 24h Innovation Contest  
Finattech, 2013

Developing of an innovative and decorative solution for electric cable guides (origami accordeon solution), approved by Finattech

2nd place at Fest'Innov, 24h Innovation Contest  
Vinci, 2012

Design of an energy independent and eco-friendly construction (recycled materials...) and approved by Vinci

### Interests

