LACERDA GIRO Felipe

PhD Candidate at University of Liège

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Keywords:	offshore wind turbine, corrosion, fatigue, structural reliability, decision making, machine learning
Publications	ResearchGate profile ORBi (Open Repository and Bibliography)

MISSION

MAXWind Project

MAXWind (MAintenance, Inspection and EXploitation Optimization of Offshore Wind Farms subjected to Corrosion–Fatigue) project aims to develop offshore wind turbine lifetime assessment tools that can help offshore wind farm owners and operators to optimize the wind farm in the future to reduce the Levelized Cost of Energy (LCoE) below 60€/MWh.

The project is funded by Energy Transition Fund (ETF), Belgium.

EDUCATIONAL BACKGROUND

Ph.D. Candidate

Université de Liège

May 2020 - Current

Participant of MAXWind Project.

Dissertation title: "*Optimal Inspection and Maintenance Planning for Offshore Wind Substructures Subjected to Corrosion–Fatigue*"

M.Sc. in Advanced Ship Design (EMship)

Université de Liège & École Centrale de Nantes

Oct 2017 - Feb 2019

Joint Master Degree consisting in three stages:
- Master in Naval Architecture (Université de Liège)
- Master in Hydrodynamics, Energy and Propulsion (École Centrale de Nantes)
- Complementary Diploma in Offshore Structures (West Pomeranian University of Technology)

Thesis title: "*Analysis of Different Meshing Approaches for Grid Convergence Study in Marine Fluid Dynamic Cases*"

Bachelor of Engineering in Marine Engineering & Naval Architecture

Federal University of Rio de Janeiro (UFRJ)

Jul 2008 - Jun 2016

Thesis title: "*Extrusion Welding in High Density Polyethylene Sheets – Evaluation from a Marine Point of View*"

WORK EXPERIENCE

Engineering Trainee

DW–ShipConsult, Germany

Mar 2019 - Nov 2019 (9 months)

Data analysis of a underwater acoustic deployment in Antarctic sea.

Master Student Intern

NUMECA International, Belgium

Jul 2018 - Oct 2018 (4 months)

Work in Marine Products & Applications group, where the master thesis of EMship course was developed.

SKILLS

Languages
Portuguese (Native), English (fluent), French (intermediate) and German(basic).

Computer skills
Computational Fluid Dynamics, Computed Aided Design, Programing (Python, FORTRAN and VBA), machine learning, data analysis, LATEX.