



# JOSÉ LOPES DA SILVA MOREIRA

PROJECT AND DEVELOPMENT ENGINEER

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## WORK EXPERIENCE

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### UNIVERSITY OF ANGERS

2022 – 2024

*Partnership, training and communication manager*

Development of the Lumomat chemistry research school project.

- Web development (WORDPRESS, ODOO, PENPOT, HTML, CSS) and DISCORD server.
- Design of communication media (INDESIGN, PHOTOSHOP, ILLUSTRATOR).
- Videoconferences hosting (POWERPOINT, TEAMS), report writing (WORD).
- Management of projects, event organization (JOPLIN, OBSIDIAN).

### HYDROTHERM INDUSTRIE

2021

*Project engineer*

Industrial project, fluid transfer and distribution systems for thermal and hydraulic installations.

- Project and purchasing management (EXCEL), customer relationship, method, CAO design (FREECAD).

### MICROENTERPRISE

2019 – 2020

*Self-employment in science education*

Teaching physics and chemistry in secondary schools and private tutoring.

- Teaching skills, physics-chemistry and mathematics, accounting and management (EXCEL).

### LIEBHERR-FRANCE SAS

2017 – 2019

*Test and validation engineer*

Thermal and acoustic validation of hydraulic excavators.

- Thermal and acoustic testing, instrumentation and measurements, calculations and analysis (EXCEL).
- Test reports: writing and development of interactive models (LATEX).

### TMW TECHNOLOGIES

2015 – 2017

*Design and project engineer*

Development of industrialization, design and methods.

- CAO design (SOLIDWORKS), development of a management software tool (VISUAL BASIC).

### ARIANEGROUP

2014

*Modeling and simulation engineer (final year internship)*

Space engines division: development of rocket engine models.

- Multi-physics programming and simulation (PROOSIS).
- Numerical methods for solving equations and algorithmic.
- Rocket engines architectures.

### UNIVERSITY OF CALIFORNIA, SANTA BARBARA

2013

*R&D simulation engineer (US internship)*

Mechanical Engineering Department, Computational Fluid Dynamics Laboratory: research into the numerical modeling of particle-laden gravitational currents.

- Numerical simulations and programming (C, MATLAB).
- Calculations and analysis.

**WELL MANOR FARM**

2012

*WWOOF: World-Wide Opportunities on Organic Farms (internship in England)*

Maintenance of green spaces, vegetable gardens and other manual tasks related to farm work.

**EDUCATION**

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**POLYTECH MARSEILLE ENGINEERING SCHOOL**

2011 – 2014

*Mechanics-Energetics*

- Fluid mechanics, heat transfer, thermodynamics, numerical modeling and simulation, programming (FORTRAN, MATLAB, VISUAL BASIC), mechanics and design (CATIA).
- Semester and internships abroad, private lessons, badminton, running.

**ÉCOLE DE TECHNOLOGIE SUPÉRIEURE – ÉTS MONTRÉAL**

2013

*Study semester in Canada*

- Aerodynamic design, aircraft propulsion systems, internal combustion engines, MATLAB programming, intercultural communication.

**UNIVERSITY OF SCIENCE AND TECHNOLOGY OF NANTES**

2010 – 2011

*Bachelor's degree in physics, mechanics program*

- General mechanics, continuum mechanics, fluid mechanics, heat transfer, strength of materials, thermodynamics, programming.

**UNIVERSITY OF POITIERS**

2008 – 2010

*University Institute of Technology, Thermal and Energy Engineering*

- Fluid mechanics, heat transfer, thermodynamics, energy systems, general mechanics, strength of materials.

**LYCÉE PILOTE INNOVANT INTERNATIONAL**

2005 – 2008

*General scientific baccalaureate, Engineering Sciences option*

- Member of the Énergies2Demain association, co-leader of an annual project on global warming, language exchange in Germany.

**SKILLS, LANGUAGES & INTERESTS**

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**SKILLS:** development, programming, creation, calculation, IT, report writing, research.**LANGUAGES:** French, English, Portuguese, German.**INTERESTS:** badminton and running, cooking and nutrition, Sci-Fi and thrillers, creativity and design.