



TOMMASO BALLANTINI

✉ ballantini.tommaso@gmail.com

☎ +39 3661884565

📍 Via Giardino 60, 61038 Terre Roveresche (PU), Italy

in <https://www.linkedin.com/in/tommaso-ballantini>

LANGUAGES

Italian: Native

English: B2

IT SKILLS

- Matlab
- Python
- Shear7
- OrcaFlex
- SAP2000
- QGIS
- Microsoft Office
- Photoshop

SOFT SKILLS

- Proactivity
- Problem-solving
- Adaptability
- Communication skills
- Curiosity
- Reliability

Structural Engineer specialized in the design and development of subsea riser systems at Saipem SpA. Experienced in strength and fatigue analysis, as well as mechanical sizing for international offshore oil & gas projects, following API and DNV standards. Proficient in FEM modeling in OrcaFlex, performing dynamic analyses to assess the effects of environmental loads. Experienced in VIV assessment and fluid-structure interaction analysis. Also involved in digital transformation initiatives, developing Python-based tools to optimize complex engineering analyses.

WORK EXPERIENCE

Riser Systems Engineer – SAIPEM SPA

January 2024 – Present, Fano (Italy)

- Design of rigid risers in compliance with company and international standards
- Technical evaluation and follow-up of riser ancillaries such as Flexible Joints and VIV strakes
- Drafting, reviewing, and refining project documentation and technical reports for internal and external stakeholders
- Leading global riser analysis (extreme, fatigue, and interference analysis) to ensure system integrity
- Developing Python-based automation to streamline and improve efficiency of riser analysis processes

MSc Thesis Student – SIEMENS GAMESA RENEWABLE ENERGY

March 2023 – July 2023, Vejle (Denmark)

- Thesis title: Wind-induced response of a wind turbine tower: dynamic analysis vs full scale measurements
- The thesis was presented at the IN-VENTO 2024 Wind Engineering Conference. The work involved post-processing full-scale wind speed and structural response measurements (accelerations and base moment) using MATLAB.

EDUCATION

Master of Science in Civil Engineering (Structural curriculum)

University of Florence, Florence, Italy

February 2021 – December 2023

110/110 cum laude

Bachelor of Science in Civil Engineering

University of Florence, Florence, Italy

Settembre 2017 – Febbraio 2021

110/110

HOBBIES & INTERESTS

Until the age of 21, I played football at a competitive level, progressing to semi-professional leagues. This experience taught me teamwork, discipline, and time management. I am passionate about sports, particularly hiking, rowing, and running. In my free time, I stay updated on current affairs and explore cultural interests such as architecture, music, and cinema.