Juan Manuel Muñoz Godin

Naval Architect

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Professional Summary

Naval Architect with experience, nearing completion of a Master's degree. Passionate about research and development, I aim to apply my analytical skills and creativity to drive innovations in the offshore energy sector. My focus on practical solutions and emerging technologies allows me to significantly contribute to the success of complex and sustainable projects.

Education

08 / 2023 - present.

Master's Degree in Naval and Oceanic Engineering from Universidad Politécnica de Madrid.
- During the Master's program, I am acquiring skills in CFD simulation with OpenFOAM and hydrodynamic analysis of platforms with ANSYS Aqwa, as well as consolidating the knowledge acquired in the Bachelor's.

08 / 2019 - 07 / 2023.

Bachelor's Degree in Naval Architect from Universidad Politécnica de Madrid.
- Bachelor's Thesis: "Implementation of Semi-Empirical Resistance Prediction Models within FreeCAD Open Source Software ". Grade: 9.5/10
- During the Bachelor's, I acquired key competencies in CAD Software, Naval Architecture (Foran, Maxsurf), and programming with Matlab.

Experience

02 / 2023 - 06/ 2024.

Siemens Industry Software, S.L.U
Intern in Quality Assurance and Quality Control (QAQC)
- Conducted over 50 automated tests with Squish Froglogic in Foran, specifically in the FSYSD, FDEFIN, and FPIPE modules for version tracking and maintenance.
- Followed and validated the implementation of new development projects in Naval Architecture using NX, through requirements analysis, validation, and testing of new functionalities.

09 / 2022 - 02 / 2023.

Canal de Experiencias Hidrodinámicas de El Pardo, INTA CEHIPAR.
Internship
- Monitored calm water tests and extrapolated results to real models in over 5 projects.
- Assisted in wave basin and cavitation tests.

Core competencies

- **CAD Software**: AutoCAD, Rhinoceros, SolidWorks.
- **Naval Architecture Software**: Foran, NX, Maxsurf, OpenFoam, ANSYS Aqwa, FreeCAD, Mars, Steel.
- **Programming**: Phyton, Matlab, LaTex, Squish froglogic, SQL(básico).
- **Competencies:** Data analysis, experimental design, problem-solving, strong communication, leadership, and teamwork.
- **Other skills**: Microsoft Office, driving license.

Proyects and publications

- **Co-supervisor of Bachelor's Thesis**: "Implementation of the Semi-Empirical Savitsky Resistance Prediction Method for Fast Vessels in FreeCAD Open Source software". GAN - 391

Languages

Spanish
- Native.

English
- B2 level

French
- Intermediate oral, basic written.