

Vitor Albuquerque

Naval Architect & Marine Engineer

30 years old, Brazilian

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In : vitor-albuquerque-9b6368117

Summary

Years of Experience

4+ years

Industries

- Tech
- Energy

Areas of Expertise

- Data Analysis
- Tool development

Qualifications

Education

COPPE – UFRJ

Master's degree in Oceanic Engineering, in progress

COPPE/UFRJ in collaboration with AHK-RJ and IHK-Nürnberg

Postgraduate Degree in Sustainable Energy Management, 2021

UFRJ – Federal University of Rio de Janeiro

BSc. in Naval Architecture and Marine Engineering, 2020

Publications / Presentations

- XII Brazilian Congress on Energy Planning, 2020. Presentation theme: "Framework for Anchoring Floating Renewable Energy Plants".

Software / Skills

- Programming: Python, R, Bash
- MS: Office Tools, Power BI
- MySQL
- Abaqus
- Free!ship, Rhinoceros 3D, AutoCAD

Languages

- English (Fluently)
- Portuguese (Native Speaker)

Soft Skills

- Critical thinking
- Problem-solving
- Teamwork and Collaboration
- Communication
- Time Management

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Experience

Systems Development Analyst at Fundação de Estudos do MAR (2021 – present)

SBR COMBAT SYSTEM SPECIALIST at Centro de Análises de Sistemas Navais (CASNAV), Brazil

Key Responsibilities:

- **Assessing Requirements:** Evaluated the needs of Combat System Subsystems and designed experiments for each subsystem as part of SBR Combat System Operational Research.
- **Tool Development:** Developed two essential tools: one for processing encrypted raw files from the SBR Submarine and converting them into spreadsheets, and another for aggregating the data and performing preliminary analysis.
- **Data Analysis:** Performed data analysis using Python for each experiment execution, and ensured the results were distributed to the responsible parties for report production.
- **Report Generation:** Produced detailed analysis reports for each run of every experiment.
- **Team Alignment:** Conducted team alignment through targeted presentations and workshops, ensuring consistent understanding and performance across the team.
- **Management Support:** Supported management with bureaucratic and organizational tasks, including the development of experiment execution schedules and setting deadlines for report delivery.

Systems Development Analyst Jr. at Fundação Ezute (2020 – 2021)

Research in SBR COMBAT SYSTEM, Brazil

Key Responsibilities:

- **Study of the SBR Combat System:** Conducted a comprehensive study of the Combat System, including its architecture, subsystems, and operational requirements. This involved reading and analyzing system manuals, examining system specifications, evaluating performance metrics, and collaborating with stakeholders to ensure alignment with operational objectives and research goals for SBR Operational Research.
- **Assessing Requirements:** Evaluated the needs of Combat System Subsystems and designed experiments for each subsystem as part of SBR Combat System Operational Research.
- **Tool Development:** Developed a tool for processing encrypted raw files from the SBR Submarine and converting them into spreadsheets for further analysis.
- **Production of Analysis Plans:** Developed and documented detailed analysis plans, specifying methodologies and procedures for conducting analyses. These plans outlined the approach and standards to be followed to ensure consistency and accuracy in the evaluation process.
- **Management Support:** Provided comprehensive support to management in handling bureaucratic and organizational tasks. This included the establishment of clear deadlines for deliverables and the preparation of detailed meeting minutes.

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Intern at Centro de Projeto de Navios (CPN) (2018)

Naval Architect Intern, Brazil

Assisted in the design and structural analysis of patrol vessels for the Brazilian Navy. Engaged in evaluating structural integrity and applying engineering principles to ensure compliance with naval standards.

Intern at Diretoria de Patrimônio Histórico e Documentação da Marinha do Brasil (DPHDM)

Survey Intern, Brazil

Conducted detailed surveys and assessments of naval vessels, including structural inspections, condition assessments, and compliance evaluations. Utilized advanced surveying techniques and technologies to gather precise data and generate comprehensive reports.

Professional History

- Systems Development Analyst at Fundação de Estudos do Mar (10/2021 – present)
- Systems Development Analyst Jr at Fundação Ezute (07/2020 – 09/2021)
- Naval Architect Intern at Centro de Projeto de Navios (CPN) (01/2018 – 04/2018)
- Survey Intern at Diretoria de Patrimônio Histórico e Documentação da Marinha do Brasil (11/2017 – 01/2018)

Certifications

- **Design of Experiments (DOE):** Offered by: Coordination of Manufacturing, Assembly, Integration and Testing – COMIT from National Institute of Spatial Research (08/2020)
- **Machine Learning:** Offered by University of Michigan on Coursera Online platform. (06/2021)
Certification Link: <https://www.coursera.org/account/accomplishments/verify/FN7JDU3DV7CL>
- **Applied Data Science with Python:** Specialization Course: Offered by University of Michigan on Coursera Online platform. (07/2021)
Certification link: <https://www.coursera.org/account/accomplishments/specialization/PS6XETPPDDW9>
- **Data Engineering Foundations:** Specialization Course: Offered by IBM on Coursera Online platform. (05/2022)
Certification Link: <https://coursera.org/share/8441fa5dd52a02fa8e78af68fa54453d>
- **IBM Data Warehouse Engineer:** Professional Certificate: Offered by IBM on Coursera Online platform. (05/2022)
Certification Link: <https://coursera.org/share/018e116435736d3163d211244059e415>