

RAFAEL DO NASCIMENTO MACHADO

Installation Supervisor

Date of birth: January 06, 1983

Nationality: Brazilian

Additional Languages: Advanced English

Education Background:

- Production Engineering - Uni Gran Rio - on going - 2026
- Mechanical Technician - CEFET - 2008

Safety courses and qualifications:

- HUET
- T-HUET
- CAEBS
- CBSP
- BOSIET
- OGUK
- NR 06
- NR 09
- NR 10
- NR 11
- NR 12
- NR 15
- NR 33
- NR 35
- NR 37
- Equipments inspector - SBM – FBTS RJ
- Basic techniques for NDT (Non destructive testing) - Senai Maracanã
- Fire fighting and damage control - ICN-RJ

- Electrical Installation in Exploding Atmospheres - Falk Nutec
- Machine operator course - HYTORC
- Confined Space entry supervisor (Relyon-RJ)

Professional experience:

- 2017 - 2023 **SBM OFFSHORE**
- Senior Production Operator

SBM Offshore – FPSO Cidade de Maricá – March 2017 to March 2023.

- Responsible for monitoring and operating FPSO's plant process and utility systems effectively and safely, meeting contractor and local regulatory compliance in all aspects of work and at all times, in order to facilitate and improve offshore oil and gas production.
- Daily routines included preparing process and utility systems for operation and shutdown, as well as isolation and reinstatement of process and utility systems for maintenance and repair, while monitoring and maintaining pollution control.
- Measures and contributing to control of critical situations and responding to eventual emergencies.

Main achievements:

- Implementation and management of change from project baseline guidelines in the refrigeration and dew point unit systems for process and equipment optimization and reliability improvements, which was later associated with cost reduction and better operation parameters.
- Implementation and improvement of the still up to date used standard chemical cleaning procedure for the water injection sulfate removal membranes, which reduced the total number of chemical cleaning cycles needed along the year and increased the membranes integrity timespan.

- 2012 - 2017 **MODEC INTERNATIONAL**
- Production Operator III

Modec International – FPSO Cidade de Santos – March 2012 to March 2017

Work performed:

- FPSO Start-Up of the plant process, contributing to control the oil production, gas export and import, produced water, TEG, MEG, and all the processes involved, as well as the pig operations, wells operations, production of fresh water.
- Reverse Osmosis, chemical injection, chemical transferring (Decanting), fire systems and Water Injection SRU.
- Gas process operation, start-up and shutdown of the gas separation, compression
- Booster, Medium Pressure, High pressure 1st and 2nd stages and dehydration system.

- Operation of a heating medium in a high and low temperature system.
- Operation of a cooling medium system.
- Operation of HPU- Hydraulic power unit.
- Operation of VRU System, CO2 Package, and Injection Compressor System.
- Operation of utilities systems (nitrogen, utility and instrument air, fresh water generator by RO).
- All production operator routines as lectures, checkups, safety meetings and others.

2010 - 2011 **BELOV ENGENHARIA**

- Diving supervisor

- Pull in and pull out of rigid and flexible risers. Installation of prod. equipment, working together with production and loading.
- Commissioning of valves and accessories to optimize the offshore process.