

# WANJOHI BRIAN MBUGUA

Engineering Watch Officer (EOW) III/1

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## Profile

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Dedicated and results-oriented marine engineer with 3+ years' experience who takes pride in problem solving and efficiency. I believe most modern challenges can be solved through employing innovation, technology and passion.

## Experience

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ENGINE CADET | HANA SHIPPING | SOUTH KOREA|

09/2022 – 10/2023

- Conducted engineering watch and watch keeping duties
- Operation and maintenance of the main engine and auxiliary machineries including but not limited to generators, auxiliary boiler, refrigeration and air condition system, sewage treatment plant, air-compressors, purifiers, pumps, hydrophore, calorifier and other mechanical systems; to ensuring operational readiness.
- General ship electrical maintenance and emergency battery management.
- Bunkering and bunker management Including bunker change over in Sulphur emission controlled areas so as to comply with IMO regulations
- Maintained records of engine performance and operational data including, noon reports, fuel consumption and other engine room publications.
- Conducted routine inspections and troubleshooting of on-board systems, addressing any technical issues that arose.
- Monitored engine room equipment and systems, performed tests and recorded performance data for analysis so as to ensure the safety and reliability of vessels and engines.
- Management of inventories such as workshop utilities and spare parts so as to ensure there is minimal downtime in case machinery breakdown
- Routine inspections of safety and emergency equipment such lifeboats, emergency generators and emergency fire pump
- Ensure safety of personnel and machinery during operation, maintenance or repair by conducting job safety assessments and drafting work permits.
- Participating in safety drills for the familiarization of safety protocols and emergency response procedures.

**SHIFT TECHNICIAN | THIKA POWER LTD| NRB, KENYA |****06/2021 – 09/2022**

- Operating a closed-loop Rankine cycle power plant with a Steam turbine. This includes 5 MAN 18V 48/60B engines, 1 MARC2 steam turbine, water tube boilers, fire tube boilers, and their auxiliaries such as air compressors, centrifugal separators, pumps, chemical dosing units and analyzers, heat exchangers, a reverse osmosis plant and an effluent treatment plant.
- Record Keeping; equipment running hours, work permits and work report, bunker report, power generation, steam quality analysis, steam turbine running parameters, engine running parameters, SFOC and SLOC analysis.
- Updating the JD Edwards integrated ERP software suite on the fuel stock, Inventory management system and Engine running.
- Receiving and issuance of handovers to shift technicians
- Engine Auxiliaries maintenance
  - Servicing of various types of valves on the DCC (Diesel Combined Cycle) system.
  - Servicing Starting, Working and Instrument/Control (Rener) Air Compressors.
  - Servicing various pumps including multi-stage pumps, diaphragm pumps, centrifugal pumps & elastomer progressive cavity pumps
- Servicing HFO and Lube oil Separators (GEA Westfalia).
- Took part in the 18000 running hour preventive maintenance of 4 MAN 18V 48/60B engines, which involved: engine parts to inspect worn-out surfaces or elements to either machine or replace them entirely and later on, assembled them back. These parts included:
  - Cylinder heads, inlet and exhaust valves and cylinder liners
  - Pistons, camshafts, start air valves, HT engine driven cooling water pump, fuel injection pumps and fuel injectors
  - Turbocharger, charge air coolers, lube oil system, control air system and booster units.

**MAINTENANCE ENGINEER | COMARCO SHIPPING | KE |****03/2021 – 06/2021**

- Tug boat engine machinery maintenance and repair i.e., pumps, valves, main engine, compressors, and generators
- Tug boat engine room operations, monitoring pressure and temperature levels and proper lubrication of parts.
- Barge hull works and repair i.e., welding and gas cutting
- Workshop practice; Fabrication and Lathe works

**Education**

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**BSc Marine Engineering| Jomo Kenyatta University of Agriculture and Technology | Nov 2019**

- Upper Second Class Honors

**High School Diploma| Memon High School |****Nov 2013**

- Grade - A

## Skills & Core competence

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- Marine Engineering systems
- Troubleshooting and repair
- Safety management and compliance
- Strong communication and interpersonal skills
- MS Office applications
- AutoCAD/ Autodesk Inventor
- Collaboration/Teamwork
- Leadership skills
- Problem-solving and technical skills
- Initiative/Proactive
- Detail oriented

## Certification/Licenses

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### Kenya Maritime Authority

Class III/1 Certificate of Competency (Engine)

### Engineering Board of Kenya & Institution of Engineers of Kenya

Graduate Engineer

### Maritime Industry Authority of Philippines

- Advanced Fire-fighting
- Medical First Aid
- Survival Craft and Rescue Boats
- Ship security awareness training
- Seafarers with designated security duties
- Engine Resource Management
- Marine High Voltage
- Basic STCW

## References

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1. **Mr. Yoon Yong Dae - Chief Engineer at Hana Shipping Ltd**  
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2. **Mr. Anthony Njoroge - Supervisor at Thika Power Ltd**  
(+254)790214775 | [tonynjoroge38@gmail.com](mailto:tonynjoroge38@gmail.com)
3. **Mr. Fred Ogutu - Chief Engineer at Specialised Vessel Services Ltd**  
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## Project

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### Marine Radio Life Jacket – Lead

| 09/2018 – 07/2019 |

Designed and developed a signaling and communication system for a Lifejacket. Put in practice both fluids and electrical systems. Utilized C++ in programming Arduino micro controllers for the project.