

MOREMBE OMENGE MORANGI

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PROFILE

A passionate and highly motivated young Marine Engineer. He holds a Bachelor of Science degree in Marine Engineering from the Jomo Kenyatta University of Agriculture and Technology. Morembe is registered as Graduate Engineer by the Engineers Board of Kenya. He has served and contributed to large scale projects at the port of Mombasa, gaining experience in marine construction processes, material selection and quality control procedures. He is committed to upholding the highest standards of safety, environmental stewardship and protection of marine ecosystems. Aspires to leverage on technical expertise and practical experience gained to advance into leadership roles within firms, driving growth and innovation in the maritime sector in Kenya and worldwide on a global scale.

CAREER HISTORY

Graduate Marine Engineer

Sigtuna Consultancy

Jan 2024 – Present

Construction of Berth 19B at Port of Mombasa.

- Engaged with diverse stakeholders including local community, government agencies, NGOs and Academia to identify concerns, address grievances and incorporate local perspectives into project planning.
- Took part in coordinating interdisciplinary teams including environmental scientists, social scientists, engineers and legal experts to present assessments in public barazas.
- Involved in decision-making with regard to recommended adjustments to improve environmental and social outcomes during project planning.

Mombasa Port Development Project, Phase III.

- Engaged with diverse stakeholders including local community, government agencies, NGOs and Academia to identify concerns, address grievances and incorporate local perspectives into project planning.
- Took part in coordinating interdisciplinary teams including environmental scientists, social scientists, engineers and legal experts to present assessments in public barazas.
- Involved in decision-making with regard to recommended adjustments to improve environmental and social outcomes during project planning.

Graduate Marine Engineer

Kenya Maritime Contractors (COMARCO)

Sept 2022 – Dec 2023

- Worked onboard COMARCO SWIFT (IMO 8324206), carrying repairs and maintenance operations.
- Worked on maintenance of different engines including Hansin, Yanmar, Cummins, Caterpillar MAN and Wartsila.
- Fabricated new tools and equipment for use onboard the Comarco Kestrel and other tug boats.
- Liaised with the engine room team to ensure vessel repairs and dry dock jobs are attended to as planned.
- Introduced to engine inspection procedures such as smoke check, valve and tappet clearance, engine sound checks, injector nozzle maintenance, injector pump maintenance, temperature checks and thermometer readings on all engine components.
- Conducted cleaning of systems onboard the docked vessels and all parts removed from the vessels for repairs. These include; power generators, engine room floors, winch systems, fuel tanks among others.
- Maintenance of the refrigeration systems and HVAC systems, maintaining refrigerant levels, cleaning blower components, checking fuel line connections, cleaning the coils, maintaining refrigerant charge, gas pressure thermostat calibration and electrical connections.
- Conducted marine survey and safety inspections under the guidance of Lloyd's maritime surveyors before clearing them for sailing.

- Heavily involved in welding operations in 3 vessels.
- Conducted carpentry (woodworks) in the fabrication of wooden stands, onboard furniture repairs, furniture maintenance. Reported to the carpentry team leader and Chief Engineer.
- Conducted cleaning of furniture, propellers, tank covers, fire system equipment, engines and other systems as a maintenance practice.
- Successfully led bilge cleaning operations in 3 vessels, scheduled garbage collection processes.
- Scheduled bilge pumping operations together with the external cleaning teams.
- Participated in fire and other safety drills.

Computer Technician

Melissa B. M & Associates

Jan 2022 – Jun 2022

- Provided technical support to the law firm in software installations and upgrades as well as general maintenance of their computers and support devices i.e., printers, scanners, WLAN routers.
- Troubleshooting and fixing system failures/bugs and providing solutions to restore functionality.
- Manage software security in computer networks to maintain privacy and protection from attacks.
- Fixed driver related issues that caused blue screen error, software conflicts and incompatibility with devices, application freezes among others.
- Trained users on use of new software. This occurred after a major upgrade such as shift from windows 10 to windows 11.
- Learnt key IMO conventions relating to the Maritime Industry i.e., Standards of Training, Certification and Watchkeeping for Seafarers (STCW), Prevention of Pollution from ships (MARPOL 1973) and Safety of Life at Sea (SOLAS 1974)

Marine Engineer Intern

Heztech Engineering Services – Construction of Ferry Landing Ramp Project

Mar 2021- May 2021

- Carried out material inspection – cement, timber frames, steel rods, sand and aggregates.
- Managed Casting and Curing processes – under supervision of Senior Engineers – of precast blocks to be used at the Landing Ramp as per design mix.
- Successfully fabricated Gauge boxes and Formwork for Precast Blocks using Marine Plywood and Timber frames.
- Successfully prepared reinforcement cages, lifting hooks, stools for Precast blocks
- Prepared land for casting alongside other company personnel including Ground leveling, Watering, Compaction and Blinding.
- Grasped the installation process of Mattresses and Gabions boxes as the retaining wall of the Ramp.
- Drafted a report of internship.

Marine Engineer Intern

BAC Engineering and Architecture

(Mombasa Port Development Project, Phase II – Construction of Container Terminal)

Jul 2019 – Sep 2019

- Inspected Prefabricated Vertical Drains used for ground improvement process of the reclaimed container yard that quicken up the consolidation process of the soil.
- Supervised pile driving at the berth area of the container terminal.
- Supervised Calibration of Compression and Tensile machines used in Quality Control Laboratory.
- Environmental Monitoring activities around the berth and container yard during ongoing construction process. Conditions measured were Water and Air Quality (turbidity, dissolved oxygen, pH, Nitrogen dioxide, Sulphur dioxide), Noise and Vibrations, Marine Flora and Fauna (Mangrove, Seaweed, Coral Reef Ecosystem).

- Gained an understanding of reclamation process of land from the ocean starting with pumping up of suitable sand materials in a Trailing Suction Hopper Dredger from the designated offshore sand borrow pit, transportation, dumping and compacting of sand for ground improvement to precede.
- Acquired knowledge of Cone Penetration Test (working principle as the steel cone is pushed into the ground to when final measurements are recorded by the Rig computer).
- Conducted Compression Test and Slump test which determined whether correct mix proportions of various materials were used and the consistency of fresh concrete hence how workable the concrete is.
- Conducted Sieve analysis to determine particle distribution of aggregates by size of different samples.
- Drafted a report of my internship.

Workshop Trainee

Jomo Kenyatta University of Agriculture and Technology (JKUAT)

Internal Attachment

Jun 2017 – Aug 2017

- Tasked with proper usage of different equipment in the various workshops.
- Gained proficiency experience in metalworks – fabrication, welding, joinery and milling – by making a metal dustbin during period at machine, welding and fitting workshops while using lathe machine, hydraulic press, metal bender, metal cutter and shaper.
- Acquired knowledge in piping, cement mixing, block creation and plastering while using different tools during period at plumbing and masonry workshops.
- Created a wooden steering wheel while at carpentry workshop. This gave me experience in wood joinery, sawing, preservation, cleaning, finishing and maintenance.
- Learnt about different engines models and working principles while at automotive workshop.
- Learnt about the basic model of refrigeration system onboard marine vessels, types of refrigerants, regulations for HCFCs/HFCs on marine vessels and their environmental impact while at thermodynamics laboratory.

PROFESSIONAL CERTIFICATIONS

1. Engineers Board of Kenya
Graduate Engineer – B23688
2. Bandari Maritime Academy, Kenya
 - Basic Safety Training for Seafarers – BST2602
 - Security Awareness Training for Seafarers – SAT2792

EDUCATION

1. B.Sc. Degree in Marine Engineering,
Second Class Honors – Lower Division
Jomo Kenyatta University of Agriculture and Technology. **2016 – 2022**
 - **Specialized coursework:** Marine Engines, Fluid Flow Machinery, Power Plants, Marine Refrigeration & Air Conditioning, Solid & Structural Mechanics, Engineering Thermodynamics, Gear Mechanisms, Control Engineering, Engineering Materials, Marine Surveying, Material Science, Marine Engineering Design, Marine Engineering Technology.
 - **Key Project:** Model and carry out Open Water Prediction on a Three-bladed propeller configuration using software, serving as project lead. (Used SolidWorks, HydroComp PropCad for modelling and Siemens StarCCM for simulation)
2. Kenya Certificate of Secondary Education,
Grade: A-
Light Academy. **2011 – 2014**

KEY SKILLS

- Leadership
- Adaptability
- Effective communication
- Document processing – Word, Excel and PowerPoint
- Presentation skills
- Attention to detail
- Software – SolidWorks, HydroComp PropCad, Siemens StarCCM

LEISURE ACTIVITIES

- Football – soccer matches with friends weekly.
- Swimming – fun diving and snorkeling activities.

REFEREES

Available upon request.