RASHID SHABANI'S CV

PERSONAL INFORMATION

Name : Rashid Masaho Shabani

Nationality : Tanzanian

Date of birth : November, 22nd 1996

Marital status : Married

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PROFESSIONAL SUMMARY

Versatile and results-oriented Professional Mechanical Engineer with over five years of diverse experience across steel processing industry and food processing industry where I developed strong expertise in mechanical machinery maintenance, engineering project management. Proven expertise in managing high-volume production lines, leading equipment installations and upgrades, and executing technical projects from concept to commissioning. Strong command of EHS standards**,** including OSHA regulations**,** ISO 9001, ISO 45001, and ISO 14001, with a consistent record of improving workplace safety, reducing downtime, and enhancing equipment reliability. Expert in cross-functional leadership, preventive maintenance, process optimization, and fostering a culture of safety and continuous improvement across industrial environments.

EDUCATION

Bachelor Degree in Mechanical Engineering

Mbeya University of Science and Technology (MUST)

2016-2020

PROFESSIONAL CERTIFICATION

Professional Qualification

Registered by Engineers Registration Board (ERB)

2025

PROFESSIONAL EXPERIENCES

Mechanical Engineer

ALAF Limited Company – Dar es Salaam

June, 2022 to August, 2025 – Fixed term contract

Responsibilities:

- Plan, initiate and manage engineering projects aimed at improving plant efficiency, reducing downtime and optimizing operational output.
- Collaborate with cross – functional teams to define project scope, objectives, timelines, and resource requirements.
- Monitor and control project budgets, schedules, and deliverables to ensure timely and cost-effective execution.
- Drive continuous improvement initiatives through structured project planning and execution.
- Develop and implement preventive and predictive maintenance programs for all critical plant equipment and systems.
- Supervise internal maintenance teams and external contractors to ensure safe and efficient maintenance operations.
- Maintain and improve equipment reliability through data-driven maintenance strategies and asset management techniques.
- Identify, evaluate and implement process improvement opportunities to increase efficiency, reduce waste, and lower operational costs.
- Apply lean manufacturing and six sigma methodologies to streamline workflows and eliminate inefficiencies.
- Analyse energy usage across the plant and identify initiatives to reduce consumption and improve efficiency.
- Lead, mentor, and develop a multidisciplinary team of technicians and maintenance personnel.
- Conduct HIRA (Hazard Identification and Risk Assessment) and enforce LOTO procedures during maintenance and breakdowns.
- Monitor key performance indicators (KPIs) such as Mean time between failure, mean time to repair, failure rate, reliability, production, OEE**,** quality yield, scrap rate, mill availability.
- Participate in EHS audits**,** ensure corrective actions are closed, and maintain a zero-LTI (Lost Time Injury) record.

- Supervise maintenance of key cold rolling mill systems including main drive motors, hydraulic Automatic Gauge Control systems, recoilers, and uncoilers, N_2 gas accumulators, High pressure and Low pressure hydraulic rotary gear pumps, centrifugal pumps, rotary, axial flow compressors, pinions and chocks, hydraulic and pneumatic systems, HVAC systems (Air conditioners, chillers, filters & purifiers).
- Lead breakdown troubleshooting activities with a focus on quick restoration and root causes elimination. Use different tools to solve problems like 6m, 5-whys, FMEA, PDCA, Pareto analysis (80/20 rule), Kaizen rule, Poka yoke, SOPs.
- Diagnose and resolve mechanical failures in line components such as roll stands, couplings, bearings, and shaft assemblies.
- Implement modifications to improve operational efficiency, sheet flatness, and minimize machine vibrations.
- Manage spare parts inventory for critical mechanical components and liaise with vendors for procurement and repair services.
- Maintains documentation for maintenance schedules, machine histories, and root cause analysis of mechanical breakdowns.
- Prepare and reviewed Job Safety Analyses (JSA) for all critical maintenance operations.
- Participate in ISO 45001 internal audits and helped to drive corrective and preventive actions (CAPAs).
- Deliver toolbox talks and technical training sessions to ensure workforce awareness of mechanical hazards and safety protocols.

Mechanical Engineer

Kilombero Sugar Company Limited- Morogoro.

December, 2020 to May, 2022

Responsibilities:

- Managed CAPEX projects (such as designed, fabricated and installed new tray type condenser vacuum pan) from concept to commissioning, ensuring alignment with both operational goals and EHS standards.
- Oversaw contractor activities, ensuring compliance with site safety procedures, PPE requirements, Hazards Identification and Risk Assessment (HIRA), Lockout-Tagout (LOTO) and Permit to work (PTW) systems

- Supported implementation of ISO 45001:2018 (International standard for Occupational Health and Safety Management Systems) to manage risks and improve safety and well-being in the work place.
- Supported implementation of ISO 14001:2015 (International Standard for Environmental Management System) to ensure that environmental impacts are systematically identified, controlled and reduced.
- Supported implementation of ISO 9001:2015 (International Standard for Quality Management System) to ensure that the factory produce high quality with consistency, traceability and efficiency.
- Oversaw mechanical maintenance of juice heaters, clarifiers (sedimentation tanks), vacuum pans, and evaporators (Multiple effect evaporators).
- Supervised installation and alignment of critical rotating equipment like vacuum pumps, massecuite pumps, and crystallizers.
- Ensured smooth operation and mechanical integrity of high-speed centrifugal machines used in sugar separation.
- Troubleshot mechanical failures in condensate systems, vapour lines, and pan condensers, ensuring minimal process disruption.
- Assisted in optimizing steam economy by maintaining mechanical efficiency of multiple-effect evaporators.
- Maintained documentation of mechanical maintenance schedules, breakdown records, and efficiency audits.
- Supervised installation, operation, and maintenance of mechanical systems in milling tandem, cane knives and conveyors.
- Ensured optimal performance of milling station by monitoring mill settings, hydraulic load control, and wear patterns of rollers and trash plates.
- Conducted routine and preventive maintenance on high-torque equipment such as planetary gearboxes, mill rollers, and hydraulic accumulators.
- Designed and implemented improvements to reduce mechanical downtime and enhance juice extraction efficiency.
- Coordinated mechanical repairs and overhauls during off-crop season to ensure readiness for crushing campaigns.
- Managed spare parts inventory and vendor coordination for critical mill components.
- Collaborated with process and instrumentation teams for automated mill control and performance optimization.

KEY SKILLS AND COMPETENCIES

- Mechanical Project Planning & Execution
- P&ID Development / Technical Drawings / AutoCAD
- Project Budgeting & Cost Control
- People Management Skills
- Leadership Skills
- Contract & Vendor Management
- EHS Compliance & Safety Risk Assessments
- ISO 45001 / ISO 14001 / ISO 9001 Compliance
- Problem Solving Skills; RCA, 6M, 5-Whys, PDCA,
- Pareto Analysis (80/20) rule, Kaizen rule, Poka yoke rule.
- Mechanical Installation & Commissioning
- Leadership & Cross-Functional Team Coordination
- Mechanical Maintenance & Troubleshooting
- Preventive & Predictive Maintenance
- Permit to Work (PTW) & Lockout/Tag-out (LOTO)
- Incident Reporting
- Equipment Performance Monitoring (OEE, TPM)
- Lean Manufacturing & Continuous Improvement
- Data Analysis, Production Reporting, SAP/ERP
- **ASTM A568 / A568M** – *Standard Specification for Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements.*
- **ASME B31.3** – *Process Piping Code for lines carrying hydraulic fluids, coolants, compressed air, etc.*
- **ASME Section VIII** – *Pressure Vessels (for hydraulic accumulators or fluid reservoirs). Used for evaporators, vacuum pans, heaters, and juice tanks under pressure/vacuum.*
- **ISO 606** – *Chain drives – Sprockets and chains – Dimensions and mechanical requirements*
- **ISO 55000 Series** – *Asset Management – Overview, principles, and terminology.*
- **ISO 13373-1** – *Condition monitoring and diagnostics of machines – Vibration condition monitoring. Useful for identifying early failures in pumps, motors, and mill drives*
- **ISO 45001** – *Occupational health and safety management systems.*

- **OSHA 1910.147** – *Lockout/Tag-out (LOTO) – Control of Hazardous Energy. Essential for safe maintenance of mills, evaporators, and turbines.*
- **ASME Section VIII** – *Boiler and Pressure Vessel Code*
- **ASME B31.3** – *Process Piping -applies to steam lines, juice piping, condensate return, and vacuum lines.*
- **ISO 10816 / ISO 7919** – *Mechanical vibration – Evaluation of machine vibration by measurements on non-rotating / rotating parts.*

CERTIFICATIONS AND TRAININGS

- ISO 9001: 2015 – Quality Management System
- ISO 45001:2018 – Occupational Health & Safety Management
- ISO 14001:2015 – Environmental Management
- Disciplinary Hearing and Chairing
- OSHA – Accident Prevention and Investigation
- First Aid, Fire Fighting & Emergency Response
- ERP / SAP Systems
- Wages Negotiations
- AutoCAD / SolidWorks/ MS Excel

ACHIEVEMENT

- Played a key role in achieving zero non-conformities in external EHS and ISO audits.
- Led a cross-functional team to achieve zero incidents during a 3-month mill revamping shutdown.
- Highest 32 gauge cold rolled coils production record in a single 12 hours shift (165 MT). Highest record since ALAF Limited started its operations.
- Highest 30 gauge cold rolled coils production record in a single 12 hours shift (178 MT). Highest record since ALAF Limited started its operations.
- Successfully designed, fabricated and installed vacuum pan rain tray condenser at Kilombero Sugar Company Limited for vapour condensation and vacuum creation in the boiling pan so as to lower sugar boiling point.
- Successfully designed, fabricated and installed sugar crystallizer discharge system at Kilombero Sugar Company Limited for transferring sugar massecuite from boiling pan to centrifuge machine.

REFEREES

Name	: Eng. Onesmo Msweswe
Position	: Mechanical Engineer
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Name	: Eng. Arnold Rukiko
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Name	: Eng. Emilian Sylvanus
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