

# Muhammad Abaza

## Mechanical Maintenance Engineer

📍 Gizan, Saudi Arabia

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### Professional Summary

Results-driven Mechanical Engineer with hands-on experience in equipment maintenance, logistics, fleet, cranes, and workshop operations. Specialized in reducing downtime through preventive and predictive maintenance strategies and Root Cause Analysis (RCA). Proven ability to lead field teams, optimize fleet and equipment performance, and support critical operations for major clients including the Saudi Electricity Company (SEC) and National Water Company (NWC).

### Work Experience

#### Maintenance & Logistics Engineer – RAPCO Contracting and Industrial Services

📍 Gizan, Saudi Arabia | 11/2024 – 2/2026

- Leading maintenance and logistics operations across the Southern Region, supporting SEC and NWC projects.
- Managing preventive and predictive maintenance programs for fleet, heavy equipment, and cranes.
- Supervising vehicle fleets including Toyota, Mitsubishi, Nissan, Kia, JAC, Great Wall, and Isuzu.
- Overseeing maintenance of boom trucks and mobile cranes, including HYVA, HIAB, Palfinger and Fassi.
- Supervising heavy truck maintenance for Mercedes-Benz Actros (MP3, MP4, MP5).
- Developing and enforcing SOPs and preventive maintenance frameworks to extend asset life and reduce failures.
- Conducting Root Cause Analysis (RCA) and implementing corrective and preventive actions.
- Supervising field teams, workshops, and operators while ensuring safety and performance compliance.
- Enhancing fleet efficiency using GPS tracking and data-driven route optimization.
- Streamlining spare parts procurement and inventory control aligned with operational demand.
- Achieving 100% equipment availability during peak project timelines.

## Machinery Services Engineer – Kharafi National S.A.E

📍 New Cairo, Egypt | 02/2024 – 10/2024

- Supervised maintenance and daily operation of light and medium-duty vehicles including Toyota, Nissan, and ISUZU NPR.
- Handled maintenance of Mercedes-Benz Actros (MP2, MP3).
- Planned and scheduled preventive maintenance activities for workshop teams and site vehicles.
- Diagnosed mechanical, hydraulic, and electrical faults for diesel and gasoline-powered vehicles.
- Managed spare parts procurement and ensured availability of approved components.
- Maintained accurate service and maintenance records using ERP systems to track fleet uptime.

## Production & Maintenance Engineer – Silver Edge Technology

📍 10th of Ramadan, Egypt | 09/2023 – 02/2024

- Maintained and optimized plastic injection molding machines, as well as assembly and packaging machines, ensuring stable production performance.
- Developed periodic preventive maintenance templates for injection, assembly, and packaging equipment to ensure consistency and minimize breakdowns.
- Implemented technical upgrades that improved machine efficiency, production quality, and cycle time, eliminating recurring mechanical issues.
- Led a technical team in coordinating daily production and maintenance schedules for injection, assembly, and packaging lines.
- Standardized maintenance records and documentation for plastic injection, assembly, and packaging machines to enhance traceability and reduce operational errors.

## Technical Skills

- Preventive & Predictive Maintenance
- Fleet & Asset Management
- Heavy Equipment & Crane Maintenance
- Workshop Supervision & Field Operations
- Root Cause Analysis (RCA)
- Cost Control & Budget Monitoring
- Spare Parts & Inventory Management
- Logistics Coordination
- GPS Tracking & Fleet Analytics
- ERP Systems
- SOLIDWORKS
- Ansys Mechanical
- MS Office

### **Certifications & Courses**

- METALOCK – Cast Iron Repairs
- NDT – Weld Inspection Level 1
- OSHA – Safety and Health

### **Training**

RPM Car Service Center – Mansoura | 02/2020 – 10/2020

Performed engine, suspension, and transmission maintenance for passenger vehicles.

Suez Canal Authority – PSEWNC | 08/2021 – 09/2021

Involved in metal works, welding, painting, welding inspection, cold welding, and general marine maintenance activities.

### **Education**

B.Sc. in Mechanical Design and Production Engineering – Port Said University  
Port Fouad, Egypt | Graduated: July 2023  
Graduation Project: Energy Harvesting from Mechanical Motion using Speed Bumps (98%)

### **Languages**

Arabic – Native Proficiency

English – Full Professional Proficiency