

Mohamed Ahmed Radwan

Mechanical Power Engineer

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Professional Summary

Mechanical Engineer with 7+ years of hands-on experience in maintenance and overhaul of heavy-duty machinery including loaders, excavators, diesel engines, and generators. Skilled in Caterpillar diagnostic systems (CAT ET, SIS) with strong leadership and problem-solving capabilities.

Currently leading maintenance operations in Saudi Arabia with a proven record in team development, process improvement, and performance excellence.

Professional Experience

Workshop Supervisor

Saleh Abdulaziz Al Rashed Co. – Riyadh, Saudi Arabia (Oct 2023 – Present)

- Reduced average maintenance turnaround time by 20% through process optimization.
- Improved spare parts inventory accuracy via structured request workflows.
- Led a team of 10+ technicians and achieved zero-delay KPIs for 6 months.
- Applied preventive maintenance plans that reduced breakdowns by 30%.
- Trained team on CAT SIS & CAT ET diagnostic tools.
- Delivered training on AC systems, hydraulic/electrical schematics interpretation.

Field Maintenance Engineer

Mantrac Egypt (Jan 2021 – Oct 2023)

- Great knowledge with engine overhauls with less than 5% callback rate.
- Improved customer satisfaction by reducing downtime and accurate diagnostics.
- Supported critical projects like Sukari Gold Mine with 24/7 uptime.
- Trained junior engineers on CAT systems and advanced troubleshooting.
- Led practical sessions on Equipment's HVAC system maintenance and schematic analysis.

Maintenance Engineer

Mantrac Egypt (Sep 2019 – May 2020)

- Conducted diagnostics and repairs on heavy CAT equipment.
- Involved in high-impact field operations for mining clients.
- Organized internal knowledge sessions on electrical/hydraulic diagrams.
- Provided hands-on training on CAT SIS, ET, and cooling system faults.

Technical Support Engineer

IFG Group (Feb 2019 – Aug 2019)

- Created reporting templates that improved documentation efficiency by 40%.
- Supported engineers with real-time fault analysis and resolution.
- Conducted team training on CAT diagnostic tools and system schematics.

Service Engineer

ISMTRAC (Jun 2018 – Feb 2019)

- Overhauled generators (CAT, Perkins, Cummins, Deutz) to high standards.
 - Managed workshop operations including parts requisition and follow-up.
 - Trained staff on electrical/hydraulic diagrams and AC system repairs.
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Education

B.Sc. in Mechanical Engineering (Power Department)

Suez Canal University – 2018 | GPA: 2.4 (C+)

Certifications

- Caterpillar Technician for Africa
 - Mechanical Design – Coursera (SolidWorks, Catia)
 - Mechanical Analysis – Cornell (ANSYS CFD & EFA)
 - MATLAB Programming – Coursera
 - Business English Diploma – Show Academy, Ireland
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Technical Skills

- CAT SIS, CAT ET, MS Office
 - SolidWorks, Catia, ANSYS, MATLAB
 - Schematic interpretation (Electrical & Hydraulic)
 - Workshop management, leadership, reporting
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Languages

- Arabic – Native
- English – Fluent
- French – Basic