

# Mahmoud Desouky

📍 Riyadh, Saudi Arabia 📞 +966 543265122 | +20 1026915651 ✉️ desokym929@gmail.com

## Professional Summary

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Mechanical Engineer with 15+ years of experience in the maintenance of heavy equipment and crushers. Specialized in troubleshooting, preventive/corrective maintenance, root cause analysis, and hydraulic/pneumatic systems. Strong track record in team leadership, safety compliance, spare parts management, and vendor coordination. Member of the Saudi Council of Engineers.

## Professional Experience

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### Senior Mechanical Maintenance Engineer | Ayed Daheem Al Homoud – NEOM, Saudi Arabia

*Jan 2023 – present*

- Oversee maintenance of heavy equipment (Loaders, Excavators, Bulldozers)
- Develop strategies to reduce downtime and optimize performance.
- Lead and mentor technical teams to improve productivity.
- Establish and enforce maintenance department policies.
  
- Executed preventive and lubrication schedules at NEOM mega project.
- Developed solutions for critical breakdowns and downtime reduction.
- Prepared technical reports and spare parts assessments.
- Trained technicians and operators on safe working practices.

### Senior Mechanical Maintenance Engineer | General Nile Company for Roads & Bridges – Egypt

*Oct 2010 – Jan 2023*

- Managed heavy equipment and crusher workshops across major infrastructure projects (Qena–Safaga, Sohag–Red Sea).
- Planned and executed preventive and corrective maintenance programs.
- Directed technical teams and ensured operational reliability.
- **Senior Mechanical Engineer** specializing in crushing plant reliability and maintenance management, with a proven track record in large-scale mining projects “ATAQA PROJECT”
- Managed integrated crushing plants (Jaw, Cone, and Gyratory) including Parker, Telesmith, Trix, Aman, Sidrapids brands.
- Expertise in maintaining vibrating screens, conveyors, and complex hydraulic/mechanical systems.
- Developed PM schedules, increasing equipment availability.
- Applied Root Cause Analysis (RCA) to minimize unscheduled downtime.
- Optimized critical spare parts inventory to reduce operational costs and repair time.
- Led and trained technician teams for major overhauls and daily maintenance.
- Ensured all maintenance activities adhered to strict mining safety standards (OSHA/HSE).

## Education

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### **B.Sc. Mechanical Engineering**

Faculty of Engineering, Benha University – Egypt | 2002 – 2007

## Technical & Soft Skills

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- Mechanical Systems Maintenance
- Root Cause Analysis (RCA)
- Hydraulic & Pneumatic Systems
- CMMS
- Welding & Fabrication
  
- Leadership & Teamwork
- Problem Solving
- Time Management
- Vendor Coordination
- Technical Reporting

## Computer Skills

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- Microsoft Office (Word, Excel, PowerPoint)
- AutoCAD
- Programming (C, C++)

## Languages

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- Arabic: Native
- English: Very Good (Writing, Reading, Speaking, Listening)

## Certifications & Training

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- Heavy Equipment Maintenance – GNRB
- Automotive Maintenance – Don Bosco Institute (Italy)
- Oils & Lubricants – Misr Petroleum Company
- Occupational Safety & Health – OSHA Standards
- English Language – Armed Forces Institute
- Communication Skills – STJEGYPT (Online)
- Equipment Awareness – Yexcel Saudi Arabia

## References

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Available upon request