

# Mohammed Fekri

Mechanical Engineer

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## PROFESSIONAL SUMMARY

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Results-driven Mechanical Engineer with experience in operating, maintaining, and optimizing utility systems including boilers, air compressors, chillers, and water treatment plants. Skilled in preventive, predictive, and corrective maintenance of rotating and static equipment to ensure reliability, efficiency, and compliance with safety and environmental standards. Adept at troubleshooting complex mechanical issues, improving system performance, and supporting continuous production operations.

## Professional Experience

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### **Mechanical maintenance engineer,**

*National Company for Maize Products/Cairo Three A Group* 

09/2025 – present

10th of Ramadan, Egypt

- Perform **preventive and corrective maintenance** on rotating and static equipment such as pumps, gearboxes, conveyors, agitators, compressors, fans, and mechanical seals.
- Supervise installation, alignment, and overhaul of mechanical systems including **centrifugal pumps, air compressors, and heat exchangers**.
- Monitor and maintain equipment performance through vibration analysis, temperature monitoring, and lubrication schedules.
- Troubleshoot mechanical failures, analyze root causes, and implement effective corrective actions.
- Support **production departments** by ensuring high mechanical availability and quick response to breakdowns.
- Maintain and repair **utilities systems**: cooling towers, boilers, chillers, air compressors, and water treatment units.
- Participate in **shutdown and turnaround activities**, ensuring proper dismantling, inspection, and reassembly of equipment.
- Ensure compliance with **safety and hygiene standards** (especially for food-grade environments).
- Prepare maintenance reports and assist in developing KPIs like MTTR, MTBF, and downtime analysis.
- Collaborate with electrical and instrumentation teams to resolve interdisciplinary maintenance issues.

### **Utilities Engineer, Elsewedy Electric (ECMEI)**

08/2022 – 09/2025

10th of Ramadan, Egypt

- Operation and maintenance **steam boilers, air compressors, chillers, thermal oil boilers, and water treatment plants** to ensure uninterrupted supply and optimal efficiency.
- Perform **preventive, predictive, and corrective maintenance** to reduce equipment downtime and extend asset lifespan.
- Monitor system performance, logged operational parameters, and optimized settings to meet production demands.
- Diagnose and repair **mechanical and electrical faults** in utility equipment, ensuring minimal disruption.
- Ensure compliance with **safety, environmental, and quality regulations** through SOP implementation and audits.

- Lead or support **utility system upgrades, capacity expansions, and new equipment commissioning.**
- Collaborate with cross-functional teams to improve **energy efficiency and resource utilization.**

## software Skills

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- Ansys
- Matlab
- Microsoft office
- AutoCAD
- Solidworks
- Fluidsim

## Languages

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- Arabic
- English

## Education

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**Bachelor of Mechanical power engineering., Zagazig University.**

2017 – 2022

Grade:- **GOOD.**

Zagazig City, Egypt

Graduation Project:

CONSTRUCTION AND TESTING OF A LABORATORY-SCALEWATER TUNNEL FOR HYDRAULICS STUDIES.

Grade:- **Excellent.**

## TRAININGS AND CERTIFICATIONS

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- Training at company (Engineering for Heavy Equipment Supplies), Practical Training on Diesel Engine (**October 2020**).
- Training in a company (Fast Tracking Project Contractor) FTP Training in the installation and F maintenance of elevators and escalators from (**July 15 to August 15, 2021**).
- Fundamentals of Turbomachinery Equipment Maintenance - Egycet (**August 2022**).
- Mechanical Maintenance Essentials - Oring (**January 2023**).
- Hydraulic Systems - **Oring (October 2022)**.
- Heat Exchanger Fundamentals - Udemy (**June 2024**).
- Operation and Maintenance of Steam Turbines - Udemy (**January 2022**).
- Boilers & Steam Systems - Insight Academy (**December 2024**).
- Compressed Air Systems - Insight Academy (**December 2023**).

## Additional Information

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- Military Status: Exempt
- Marital Status: Single