

Omar Khaled

MECHANICAL DESIGN AND PRODUCTION ENGINEER

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Objective

Recent Mechanical Engineering graduate with hands-on experience in production engineering, maintenance, and manufacturing operations. Skilled in CAD tools including SolidWorks, AutoCAD, and ANSYS, with a strong background in process optimization, quality control, and lean manufacturing. Demonstrated ability to lead production processes and deliver efficient engineering solutions.

Experience

Production Engineer | Hoi-Mea Middle East North Africa for Engineering Oct 2025-Present

- Production Operations - Led end-to-end production of Highmast Greenfield and RDU towers, ensuring compliance with engineering specifications and quality standards.
- Supervised fabrication processes including cutting, bending, welding, and assembly.
- Optimized material utilization to reduce waste and improve efficiency.
- Process Optimization
- Identified bottlenecks and improved production workflows to increase output and reduce lead time.
- Coordinated with design, quality, and logistics teams for seamless operations.
- Applied lean manufacturing principles to enhance efficiency and workspace utilization.
- Quality & Safety
- Maintain strict safety compliance with zero incidents.
- Conducted quality inspections to minimize defects and rework.
- Troubleshoot production issues to reduce downtime.

Production Engineer | Oppo Egypt Manufacturing July 2025 – Oct 2025

- Developed and implemented production schedules to meet targets efficiently.
- Improved workflows using lean manufacturing and continuous improvement practices.
- Ensured product quality through monitoring and root-cause analysis.
- Oversaw equipment maintenance and minimized downtime.
- Enforced HSE regulations and conducted risk assessments.
- Supervised and trained production teams.
- Prepared reports and tracked KPIs for performance evaluation.

Maintenance Engineer | Better mix for Ready-mix concrete Apr 2025 – June 2025

- Managed maintenance operations and supervised technical teams.
- Performed preventive, predictive, and corrective maintenance.

- Diagnosed equipment failures and ensured rapid repair response.
- Maintained maintenance logs and reports.Ensured compliance with safety regulations.

Education

Cairo University | B.Sc.

Aug 2024

Major: Mechanical Design & Production Engineering

Overall Grade: Very Good

Graduation Project: Excellent

Graduation Project: Exploratory ROV Submarine - Designed and built a cost-effective ROV for underwater inspection up to 30 meters depth. - Used SolidWorks for design and conducted CFD simulations for hydrodynamic analysis. - Manufactured and tested prototype under simulated conditions.

Training and Internships

- **El Marakby Steel**

Aug 2023 – Sept 2023 - Gained exposure to factory operations and production planning processes.

- **CNC Internship – Cairo University**

Aug 2021 – Sept 2021 - Learned CNC milling and drilling codes with practical lab experience.

- **Assistant Mechanical Engineer – Hyundai Car Repairs**

July 2020 – Oct 2020 - Diagnosed and repaired automotive mechanical systems including engines and AC systems.

Technical Skills

- SolidWorks
- ANSYS & ANSYS Fluent
- Autodesk Inventor
- MS Office (Word, Excel, PowerPoint)
- Production Planning & Control
- Lean Manufacturing

Soft Skills

- Problem Solving
- Time Management
- Attention to Detail
- Adaptability
- Team Collaboration
- Conflict Management