

Mohamed Mahrous

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Mechanical Engineer

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EGYPT, Damietta.

About me

I am a passionate mechanical engineer with a mechanical design experience, taking into account functionality, manufacturing, and assembly. I also have a background in hydraulic systems and maintenance management. I am a data science enthusiast with experience using Python and SQL. I love exploring more science and learning new skills. My vision is to employ this knowledge to achieve problem-solving and continuous development.

Education

Sep 2017 - Jun 2022, Bachelor's degree in Mechanical Power Engineering, Mansoura University.

Accumulative grade: very good (81.67%).

Technical Skills

Mechanical design

Simulation

Research and self-learning

CAD-CAM-CAE

Hydraulic circuits

Maintenance management

Classic control

Lean six sigma

Microsoft Office

Programming by Python

Data Engineering

SQL (PostgreSQL and Snowflake)

Probability & Statistics

Personal Skills

Analytical skills

Discipline

Problem solving

Language

Arabic: native

English: very good

Experience

Mechanical design engineer, At Saudi First Elevator, 10th of Ramadan City, 15 months.

I designed products (such as elevator cabins and chassis, control box bodies, and automatic door parts) using SolidWorks, validated new designs (using FEA and CAM, including simulating press brake bending), planned manufacturing processes (such as nesting for laser cutting and ordering welding), and constructed Excel sheets for pricing products and production management.

Freelancer, On Outlier, NetTutor, and Aligner, Remotely, 5 months.

On NetTutor, I helped students with concepts and problems in Calculus, Algebra, Statistics, Strength of Materials, Fluid Mechanics, and Thermodynamics. On Aligner & Outlier, I am contributing in AI training in Mathematics, Programming by Python, Engineering Fundamentals, and Data Labeling.

Data Engineering Projects on Datacamp.

Analyzing Students' Mental Health (PostgreSQL) & Exploring London's Travel Network (Snowflake) & Investigating Netflix Movies (Python numpy) & Exploring NYC Public School Test Result Scores Movies (Python pandas) & visualizing the History of Nobel Prize Winners (Python matplotlib).

Courses& training

Associate Data Engineer in **SQL** track & Data Engineer in **Python** track, Datacamp·2025.

Ansys static analysis & **Mechanical Design** Course, Udemy Design online academy·2025.

Machine Learning with Python, Machine design, Coursera·2025.

Essential **mechanical maintenance**& classic control& Diesel Engine& Gas turbine, Net3lem·2024.

Sheetmetal& Cypcut& Welding, World is sheetmetal·2023.

MEP (HVAC, Firefighting, AutoCAD), Handasi·2023.

Solidworks (essential, advanced, sheet metal, weldments, simulation), net3lem·2022.

Global maintenance **management**& Applied **hydraulic**, Oring·2022.

Introduction to **programming** by Python & Linear Algebra& **Probabilistic** Systems Analysis,
MIT open courseware. ·2018.