

**100556-MEC-5CM-E-2019**  
**Senior Mechanical Maintenance Engineer**

Holds a B. Sc. in Mechanical Engineering and has about 5 years experience working in construction and maintenance.

## PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : Cairo

## EDUCATION

: B. Sc. in Mechanical Engineering, Alexandria University, 2019

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD  
: Matlab  
: EES  
: COMSOL  
: Revit MEP  
: Solid Works  
: ANSYS  
: HAP  
: HTRI Xchanger

## TRAINING COURSES AND CERTIFICATIONS

- : Employability Skills, University Center for Career Development (UCCD), Alexandria University (Apr. 2019): Developed communication, teamwork, leadership and presentation skills through practical activities.
- : Technical Report Writing, University Center for Career Development (UCCD), Alexandria University (Apr. 2019): Learned how to write Business, Project, Progress and work plan Reports.
- : Trainings at:
  - Egypt Air (Aug. 2018):
    - Overview of Jet engines and how to tested it.

- Overview of Tire and fuselage maintenance.
- Learned how aircraft cooling system and flight control surfaces works.
- Cairo Oil Refining Company (Jul. 2018):
  - Biggest refinery company in Egypt.
  - Overview of the refining processes, company systems and final products.
  - Overview of the components of the refining process (furnaces - heat exchangers - separation towers).
  - Observed the difference between pump types used on site.
- Metro Egypt (Aug. 2017):
  - Overview of the Cooling and Ventilation system.
  - Learned how the hydraulic and pneumatic systems works.
- Egyptian International Motors (Komatsu) (Jul. 2017):
  - Overview of Diesel engines and hydraulic systems.
  - Learned how to maintain diesel engines.
  - Learned how to maintain hydraulic circuits.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Mar. 2021 till now

**Employer** : 3M Co. for Printing Solutions and Maintenance

**Job title** : Senior Mechanical Maintenance Engineer

**Job Description** :

- Install new equipment according to customer requirements and perform initial testing and optimization procedures to ensure correct and efficient operation.
- Inspection of all operating parts to ensure proper operation within expected tolerances.
- Perform routine maintenance on equipment and assist in establishing preventative maintenance schedules with customers.
- Disassemble malfunctioning equipment when necessary to locate broken parts, and complete repairs using specialized tools.
- Provide training to end-users on the proper use and basic care for the equipment and providing constructive feedback to improve quality of work.

**Dates** : From Oct. 2019 till Dec. 2020

**Employer** : Egyptian Army

**Project** : Military Service

**Job title** : Military Mechanical Engineer

**Job Description** :

- Performed corrective and preventative maintenance on AS&E X-ray Machines, Perkins Generators and systems in military unit.
- Documented all repair and maintenance work performed on equipment.

### Technical Knowledge:

- Pumps.
- Refrigeration and Air Conditioning.
- Compressors.
- Heat Transfer and Insulation Calculations.

- Hydraulic Circuits.
- Heat Transfer Simulation (COMSOL).
- Fluid Simulation (ANSYS).
- Maintenance and Operation of Generators.
- Thermal Equipment Design.
- Classic Control.
- Operation of X-Ray Machines and Troubleshooting.
- Manufacturing, Machining and Planning Techniques.