

# Ali Mohamed Salem

## Mechatronics Engineer

Ground Support Equipment Maintenance Engineer with a strong foundation in electromechanical systems and experience in project implementation for lighting and light current systems. Skilled in diagnostics, preventive maintenance, and collaborating to enhance equipment reliability. Eager to grow expertise in Maintenance Engineering and contribute to operational excellence.

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## WORK EXPERIENCE

### Ground Support Equipment Maintenance Engineer

#### Petroleum Air Services

10/2024 - Present

Cairo, Egypt

##### Responsibilities

- Preparing a comprehensive basic training program for mechanical and electrical technicians, covering the systems used in GSE equipment, safety, and maintenance procedures.
- Assisting in diagnosing and repairing diesel, electric and hydraulic powered ground support equipment under supervision.
- Documenting maintenance activities and repair logs for accurate record-keeping and operational tracking.

### Electromechanical Engineer

#### Egypt Gas

11/2022 - 09/2024

Cairo, Egypt

##### Tasks

- Managed the implementation of power distribution, lighting, fire alarm, and firefighting systems for fuel and natural gas stations.
- Prepared technical documentation, CAD drawings of machine parts and bill of quantities of the work that needs to be done.
- Conducted site inspections and supervised the installation and commissioning of electrical and firefighting systems.

## EDUCATION

### Mechatronics Engineering and Automation

#### Ainshams University

09/2017 - 06/2022

GPA: 3.2 "Very Good"

##### Graduation Project

- Fully enclosed electric tricycle powered by an electric motor, featuring solar charging to extend range and an airbag system for enhanced safety."

## SKILLS

Troubleshooting

Hydraulics / Pneumatics

Diesel / Electric Diagnostic

MATLAB

Solidworks

Electric Systems and Wiring

Safety and Compliance

Team Collaboration

Problem Solving

Attention to Detail

Communication

## PERSONAL PROJECTS

1-Prepared a basic mechanical and electrical program for recruited technicians (11/2024 - 12/2024)

2-Sphinx Station (محطة سفينكس - CPC)

- Participated in the installation and commissioning of power distribution, fire alarm, and lighting systems and earthing systems

3- Alzahid Station (محطة الزاهد - Cargas)

- Participated in the installation of power distribution and lighting systems

4- Abis Pressure Reduction Station (Town Gas)

- Participated in the installation of power distribution, lighting and earthing systems

## CERTIFICATES

Safety Management System (SMS)  
(11/2024 - 12/2024)

SCADA Systems (07/2024 - 08/2024)

Project Management Professional Preparation  
(01/2023 - 03/2023)

Mckinsey Forward Program (08/2023 - Present)

Problem solving: Issue tree, Prioritization matrix. Communicating for impact: The EPIC (Empathy, Purpose, Insight and Conversation).

Embedded Systems Diploma (07/2021 - 10/2021)

The diploma covered: Data Structure / AVR Micro-controllers Interfacing / Embedded C / Real Time OS / Software Engineering