

# MOHAMED SHERIF MAHMOUED

## Electrical Power Engineer

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### SUMMARY

Senior Electrical Power Engineer with over 34 years of experience in electrical infrastructure development, substation engineering, and high-voltage systems design. Specializing in GIS substations (66/220kV), electrical distribution, power flow optimization, and the application of FACTS devices using advanced computational methods. Possessing a Master's degree in Electrical Engineering from Ain Shams University and internationally trained in China, Russia, and Europe. Demonstrating a consistent track record of managing full lifecycle engineering tasks—from conceptual design to site supervision and commissioning—for military and public sector power projects. Adept at team leadership, cross-functional coordination, and regulatory compliance. Fluent in Arabic and English, and highly proficient in engineering software and simulation tools.

### WORK EXPERIENCE

#### Senior Electrical Engineer

Public Company for Enterprises, Egypt

(Oct 2024 – Present)

- Is Responsible For:
- Designing and supervising testing and commissioning of GIS power stations (220/66/22kV and 66/22kV)
- Leading power infrastructure projects including Barwa, Damac, Bader 2, Motawereen (Sadat City), and East Port Said
- Overseeing laying of underground cables (66kV & 220kV) and OHTL (66kV & 220kV)
- Coordinating design approvals and integrating transmission lines with existing utility grids
- Managing power station connectivity via underground cables and overhead transmission lines

#### Electrical Engineer

Armed Forces, Egypt

(Jul 1990 – Sep 2024)

- Was Responsible For:
- Designing emergency power systems and UPS configurations
- Developing power distribution systems for facilities and infrastructure
- Engineering firing systems and 1250A circuit breakers
- Designing chillers and their control systems for specialized installations
- Creating electrical cards using PCAD, Router, and Cam350 software packages
- Designing and maintaining electric machines (single-phase & three-phase)
- Preparing reports and monitoring erection of AUX transformers, DC systems, circuit breakers, isolated phase buses, load centers, main transformers, and 6.3kV switchgear
- Supervising all electrical installations in buildings and operational facilities
- Designing transmission and distribution systems for large infrastructure projects
- Producing single-line diagrams and performing calculations for load flow, short circuits, earthing, and lightning protection systems
- Selecting and sizing motors, switchgear, and all major electrical components
- Reviewing tender and contract documents for technical integrity and compliance

- Preparing design documentation and engineering reports
  - Providing on-site technical support during construction, installation, and commissioning activities
  - Liaising with government authorities to obtain approvals for project plans
  - Ensuring client requirements are met in all electrical designs
  - Collaborating with other disciplines for seamless integration of electrical systems into overall engineering plans
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## CAREER SKILLS:

- Power System Design – Designing electrical networks, power flow, and protection systems for distribution and transmission
  - Substation Engineering – Engineering GIS substations up to 220kV, overseeing layout, design, and installation
  - Project Supervision – Leading field operations, installation, and commissioning in high-demand environments
  - Technical Documentation – Preparing drawings, specs, and reports for tenders and contracts
  - Equipment Selection – Sizing and specifying transformers, motors, circuit breakers, and related materials
  - Governmental Liaison – Coordinating with public entities to ensure legal and regulatory compliance
  - Field Coordination – Supporting construction teams and troubleshooting technical challenges on site
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## EDUCATION

### Master of Science in Electrical Power Engineering

Faculty of Engineering, Ain Shams University — 2014

Thesis: Optimal Power Flow including FACTS Devices Using Particle Swarm Algorithm

### Diploma in Automatic Control

Electric Power Department, Ain Shams University — 2008 | Grade: Good

### Bachelor of Science in Electrical Power Engineering

Faculty of Engineering, Ain Shams University — 1990 | Grade: Good

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## PROFESSIONAL TRAINING COURSES

- China (September 2011): 15-day course on 500 KVA emergency power supply systems
- Russia (November 2010): 35-day training on oscilloscope software and calibration of multi-channel data acquisition systems (32 channels)
- China (October 2005): Two-month training on use of specific electric equipment
- Europe (France, Italy, Switzerland, Germany): Exposure to advanced European technologies in power engineering

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## SOFTWARE SKILLS

- Microsoft Office (Word, Excel, PowerPoint)
- MATLAB
- PCAD
- Router
- Cam350
- Internet & Research Tools

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## PERSONAL SKILLS

- Leading and mentoring engineering teams
- Working under pressure to meet deadlines
- Solving complex technical problems independently
- Organizing documentation and coordinating multi-site projects

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## LANGUAGES:

- Arabic | Native Speaker
- English | Very Good