

## MOHAMED AHMED BADR

### ELECTRICAL ENGINEER

**Address:** Alexandria, Egypt.

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**Driving license:** Egyptian private driving license

### JOB SUMMARY

A Qualified Senior Electrical Engineer Working As A Protection Relay Specialist With More Than 10 Years' Experience And Willing To Work In A Professional And Dynamic Organization Where I Can Utilize My Skills And Past Experience To Benefit My Future Employer.

#### AREAS OF EXCELLENCE

- Protection of Power Systems
- Commissioning
- Startup
- Testing
- Construction
- Maintenance
- Trouble Shooting
- Faults Analysis
- H.V/M.V/L.V Substation
- Power Plants
- Oil And Gas

#### ACADEMIC QUALIFICATIONS

- **MSc. In Electrical power engineering**, Faculty of Engineering, Alexandria University, Egypt, year 2015, GPA 3.1/4.  
**Master Thesis:** "Simulation of Distance Relay for Load Encroachment Problem and Agent Based Supervision of Zone3".
- **BSc. in Electrical Power & Machine Engineering**, Faculty of Engineering, Alexandria University, Egypt, Graduation year 2009.  
**Grade:** Very Good with degree of honor (77.7%).  
**Graduation project:** "Protection and Relay Coordination in an Industrial Power Plant"  
**Grade of project:** Excellent.

### CAREER RECORD

❖ **Position:** Protection, Testing, Commissioning and Trouble Shooting Engineer - May 2011 to Present.

**Company:** Egyptian Electricity Transmission Company (Full Time).

**Work Place:** Alexandria, Egypt.

#### Duties and Responsibilities:

- ↪ Testing & programming various types of protection relays.
- ↪ Faults analysis & preparing incident Reports.
- ↪ Adequate knowledge in reading the schematic drawings of different protection schemes for 220/66/11kV systems and preparing schematic drawings by using computer program.
- ↪ Responsible for New extensions & installations at live Substations.

- ↵ LV, MV, HV convention and GIS switchgear “C.T,V.T , isolators and C.B”
  - High voltage test, Contact resistance, function check, interlocks, Timing for C.B.
  - Complete testing for all types of C.Ts and V.Ts.
- ↵ Scheme checks (Synchronizing, breaker fail, Bus bar protection, communication scheme for distance relays, Interlocks).
- ↵ Substation main and back up protection different manufacturers “i.e. Siemens, ABB, Areva, GE, Schneider and SEL ”
- ↵ Primary injection, overall stability for“ bus bar, REF, step up/ down transformer”
- ↵ Testing Mimic, Annunciation, metering, load shedding, AVR Panels.
- ↵ Live H.V Substations:
  - Making routine program on these substations and complete testing protection relay
  - Faults analysis & preparing incident Reports.
- ↵ Work on most Tester equipment like “Omicron CMC 356, Freja, SVERKER 780, CPC-100, ODEN primary injection current”
- ↵ Excellent knowledge in protection software applications (DIGSI 4.9, MICOM AGIL, GE Software, PCM 2.6, Cap501, Cap540, SFT2841).
- ↵ Protection Relays (electromechanical, static, numerical).
- ↵ Received complete substation from pre commissioning to startup.
- ↵ Dc distribution systems and battery chargers.

### **Achievements**

- Renew old protection relays with digital protection relays and made all modification to matching with the existing scheme.
- Replaced old small rating power transforms with large rating power transforms and made all modifications.
- Replaced and constructed of new 11 kV sections.
- Replaced of 66 kV isolators operated by air with motorized isolators and made all control connections and modifications
- Converted interlocking circuits operated by air of many substations with electrical interlock and made of new control circuits.

❖ **Position:** Electrical Management System (EMS) Engineer - October 2017 to April 2018.

**Company:** PETROJET – PETROBEL ZOHR ONSHORE (Part Time)

**Work Place:** ZOHR Gas Development Project, Port Said, Egypt.

### **Duties and Responsibilities:**

- ↵ Responsible for Electrical Management System (EMS) and Electrical Isolation Lock Out Tag Out (LOTO) Also Preparing Permits Work And Finished The Following Courses:
  - Lock Out Tag Out (LOTO) , Oil and Gas skills OGS
  - Risk During Commissioning, Oil and Gas skills OGS
  - Introduction To Safety , Oil and Gas skills OGS
  - H2S Gas Level 1, Oil and Gas skills OGS
  - Advanced H2S Gas Level 2, MAERSK H2S SAFETY SERVICES (license).

❖ **Position** Protection, Testing and commissioning Engineer - March 2017 to August 2017.

**Company:** British Petroleum (BP) –Bechtel (Part Time)

**Work Place:** West Nile Delta (WND) Gas Development Project, Alexandria, Egypt.

**Duties and Responsibilities:**

- ↪ Testing and programming various types of protection relays :
  - 750/760 Feeder Management Relay – GE
  - Siemens SIMOCODE relay
  - ELR- earth leakage protection relay
- ↪ LV and MV convention switch gear "C.T,V.T and C.B "
  - High voltage test, Contact resistance, function check, interlocks, Timing for C.B.

❖ **Position** Construction Engineer - January 2010 to May 2011.

**Company:** METITO for Water Treatment Plant Construction.

**Work Place:** Cairo, Egypt.

**Duties and Responsibilities:**

- ↪ Design And Construct of All Electrical Connections For Motor Control Center (MCC), Motor Control Panel (MCP) ,Cable Tray, Local Control Panels, Local Control Station, Lighting Distribution System, Earthing System, Telephone System, Firefighting System, Testing and Commissioning of All Panels.

❖ **Position** Operation and Maintenance Engineer - August 2009 to December 2009.

**Company:** Uni World Company for Plastic Industrial

**Work Place:** Alexandria, Egypt.

**Duties and Responsibilities:**

- ↪ Operation and Maintenance of Blowing Machines.

**PUBLISHED PAPERS**

↪ In the 17th international Middle East Power System Conference "MEPCON'15", Mansoura University, Egypt, December 15-17, 2015. Titled "Simulation of Distance Relay for Load Encroachment Alleviation with Agent Based Supervision of Zone-3".

↪ In the 1<sup>st</sup> international Conference on New Trends for Sustainable Energy (ICNTSE 2016), Pharos University in Alexandria, October 1-3, 2016. Titled "Simulation of Distance Relay for Load Encroachment Alleviation with Agent Based Supervision of Zone-3".

↪ Renewable Energy and Sustainable Development (RESD) journal, volume 3 Issue 1, Special Issue, March 2017 - ISSN 2356-8569. "Simulation of Distance Relay for Load Encroachment Alleviation with Agent Based Supervision of Zone-3".

## PROFESSIONAL QUALIFICATIONS

- ↵ Management and Leadership: Leading A Team, December 2018, The Open University.
- ↵ Coaching Skills for Leaders and Managers, Nov 2018.
- ↵ Your Skills Your Life (soft skills), Faculty of Engineering, Alexandria, Egypt, October 2008.
- ↵ Excel 2016 Foundation Training Course, October 2018, Udemy .
- ↵ Maximize your Organizational Skills using Excel Sheets, October 2018, Udemy.
- ↵ English Launch: Learn English for Free, Nov 2018, Udemy.
- ↵ PLC Course, Good, Jelecom, Alexandria, Egypt, summer 2008.
- ↵ TOEFL IBT test, 2015.
- ↵ TOEFL Course, Good, Social and Environmental Services Centre, Alexandria, Egypt, autumn 2007.
- ↵ Member of the Egyptian Engineers Syndicate.
- ↵ IEEE Member, Full Year of 2006.
- ↵ Power Measurement and Instrument Transformer, Network Training Center, November 2012.
- ↵ Fundamental of protective relays, Network Training Center, November 2013.

## LANGUAGES

- ↵ **Arabic:** Mother Tongue.
- ↵ **English:** Excellent command of English language with International TOEFL IBT.

## PERSONAL SKILLS

- ↵ Interactive and able to learn new technologies and sciences.
- ↵ Self-motivated and can work under pressure.
- ↵ Ability to work in a team or as a team leader according to the required job.
- ↵ Troubleshooting and problem solving skills.
- ↵ Ready to travel anywhere according to the job requirements.

## PERSONAL INFORMATION

- ↵ **Date of Birth:** 28 / 9 / 1987
- ↵ **Home Tele No.:** 02-033572364
- ↵ **Gender:** Male
- ↵ **Nationality:** Egyptian
- ↵ **Marital Status:** Married
- ↵ **Military status:** Exemption

➤ **References and certificates available upon request**

### Declaration

I Hereby Declare That The Particulars Given Above Are True And Correct to The Best of My Knowledge and Belief.

*Mohamed Badr*