104950-ELE-DS-E-2013
Design & Commissioning Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 2 years hands-on experience, including 1 year working in design and commissioning.

PERSONAL DATA

Nationality	:	Egyptian
Gender	:	Male
Residence	:	Giza, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2013

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2016 till now
Employer : ASEC Automation
Job title : Design & Commissioning Engineer
Job Description : Technical Office Electrical Engineer, responsible for industrial low/medium voltage engineering, BOQ and follow suppliers in office then commissioning and start-up at site for many industrial cement projects in Egypt and abroad.

Dates : From Apr. 2015 till Jan. 2016
Employer : Technical Project Company (TEPCO), 6 October (Egypt)
Job title : Electrical QC Engineer
Job Description : Worked at medium voltage, low voltage panels, air, SF6 ring main unit, power transformer and power factor correction kiosk.

Projects:

- Vertical Coal Mill, ITALIC Cement, Helwan, Egypt:
  - Design for I/o Panels, Cables, and Actuators supply panels.
  - Design for Motor typical panels and their interface with I/O and Actuators.
- High voltage Sub-station panels with GE:

- Design for high voltage sub-station panels.
- In charge of panel builder work shop.
- Testing for panels (Protection, Control, Measurement and Interface panels).

- Two Ball Mill, Misr Beni Suef Cement, Egypt:
  - Second Coal Mill I made Design and specification of Switch gear, Transformer, Battery charger, low voltage MCC & Capacitor bank and calculation for MV protection setting and load flow.
  - First Coal Mill I made a commissioning for:
    - Medium Voltage (Switch Gear (Schneider MC Set), Power Transformer 2 MVA, Motor 1.4MW and Liquid starter).
    - Low Voltage (MCC, Motors of mill, Power factor compensation, Blowers, Composers, Shenk Systems and YARA System.
    - I/O panels and their interface with Sensors, actuators, panels.
- Two Coal Ball Mill, Amreyah Cement, Inter Cement, Alexandria, Egypt:
  - We had ABB Medium voltage Cells (incoming cell. Main motor 1 Cell, Main motor 2 Cell, Process air fan 1 Tra, Process air fan 2 Tra, Common & Transporting Tra, MCC tra 1 , MCC tra 2).
  - Main motor ABB with 6500 V, 1200Kw working with liquid starter and compensation unite in parallel with motor cell.
  - Process Air Fan 6500V/ 690 V with Variable Speed Drive (ABB).
  - Process Air Fan 6500V/ 690 V with Variable Speed Drive (ABB).
  - Transformers for low voltage panels. My job was:
    - Testing and commissioning for the system mainly medium voltage Cells, Protection relays which was REF542 Plus.
    - Testing and commissioning for I/O panel and their interface with panels, Sensors and actuators.
- Vertical Coal Mill, ASEC Al-Menya, Al-Menya, Egypt:
  - We had Schneider Electric Medium voltage Cell (incoming cell. Main motor cell, Boaster fan Tra. Cell, process air fan Tra. Cell, Low Voltage Tra.Cell.
  - Main motor Siemens with 11Kw, 850Kw working with liquid starter and 430 KVAR compensation unite in parallel with motor cell.
  - Boaster Fan 11KV/ 2 X 725 V with Variable Speed Drive (Siemens).
  - Process Air Fan 11KV/ 725 V with Variable Speed Drive (Siemens). My job was:
    - Testing and commissioning for the system mainly medium voltage Cells, Protection Relays which was SEPAM and then low voltage system of the mill.
    - Re-Design and Re-build for I/O panel and site.
    - Testing and commissioning for I/o panel, Sensors, actuators and cabling.

Field of experience :

- Design for Medium Voltage Systems.
- Design for I/O Panels.
- Design for cabling from MV/Sensors/actuators to I/O panels.
- Testing and commissioning for Medium voltage, MCC panels, I/O panels, Motors.
- Programming for protection relays.
- Programming for PLC and SCADA systems.
- Design for actuators supply panels.
- Load flow calculation.

- Protection parameter setting.
- My specific experience in MV Switchgears engineering, commissioning and start-up including protection relays, power cables and selectivity study in several panels brands such as ABB, Schneider, Siemens ....etc.
- Responsibilities:
  - Provide Engineering support to Quotation Department.
  - Provide Engineering support to project management.
  - Turn key Projects follow up.
  - Basic, detailed engineering, Specification, Datasheets, Documents and procurement follow up.
  - Installation supervision, Commissioning and start up of main MV/HV Single line diagram equipment's.
  - Project as built Documentation follow up.
  - Prepare MV equipment Data sheet, specification according to standard, MV cables selection and follow suppliers until finish construction.
  - MV panels FAT attendance in manufacture factory.
  - Make commissioning and start-up to MV panels, DC battery chargers, MV/LV transformers, MV motors and MV cables in site.
  - Make full commissioning to MV panels with standard procedure.
  - Very good experience about MV Protection Relays such as Sepam, Siprotec, REF542pluse and Micom Relays and able to learn others.
  - Familiar with International Electrical Standard such as ANSI, IEC and IEEE Standard.
  - Prepare and test the interface cables between MV S.S and H.V S.S.
  - Low voltage Engineering, prepare data sheet, make purchase request and follow procurement.