**Electrical Engineer since 2012**

**Name: Eslam Awwad Mohammed**

**Address: Egypt, 13775**

**Mobile: +201273299428**

**E-mail:** **engeslam12@yahoo.com**

**Personal Data**

**Nationality: Egyptian Place of birth: Saudi Arabia**

**Passport No: A18644890 Date of birth: Oct, 10, 1989**

**Driving License: Available**

**Education**

**College: Benha Faculty of Engineering, Egypt
Degree: Bachelor of Electrical Engineering, 2012**

**Grade: Good / 70 %**

**Experience**

**1- Maintenance Engineer (Current Job)**

 **Sino Tharwa Drilling Co, Egypt**

 **- Ensure all electrical systems & Devices are maintained, serviced, tested**

 **& installed accordance the electrical standards and good industry practice**

 **- Rig Type: Diesel Electric driven with SCR and 2000 HP draw works**

 **- Main power: 3 CAT 3512B Generators, 1714 KVA 1200KW 50HZ 600V 1828 A**

 **- SCR Unit Contains:**

 **5 SCR bridges 600VAC to 750VDC, Transformer 600VAC to 380VAC & MCC**

 **- 9 X DC Motors, Series Connection, 800KW**

 **6 for 3 Triplex Pumps, 2 for Draw Work, 1 for Rotary**

 **- VFD Unit controls speed & Torque for Top Drive Motors**

 **- Top Drive Motors: 2 X AC Motors, Varco, TDS 11-SA, 400KW**

 **- HMI (Drill Watch) & PLC to monitor & control Drilling Process**

 **- Fire system & H2S System (4 Zones) are Protection from firing & H2S Gas**

 **- Camera, Sound & Telephone Systems**

**2- Projects Engineer (1-Year)**

 **Marbella Foods Co, Egypt**

 **- Design Single Line Diagram for Production Lines: • Control & power panels**

 **• Mechanical parts (coupling shafts, gears) • Production halls layout**

 **- Supervise projects, follow up until delivery & Coordinate with others**

 **- Work on SAP system: create project, purchase request & follow up**

 **- Projects: Sugar transport system - Piping Line with Double Jacket to transport**

 **Raw gum - Vertical & Horizontal Packaging machines - Automation systems**

 **- Prepare for the projects: (SOP – SP's list – SLD - PLC & HMI programs)**

**Courses**

**- Generator**

 **Principles of electric generator**

 **Generator voltage control circuit**

 **Generator speed control**

 **Generator Protections**

**- SCR**

 **Electric Motors**

 **Motor Control Center**

 **SCR Principle**

 **SCR Wiring**

 **SCR Troubleshooting**

**- Top Drive**

 **Principles of VFD**

 **VFD control circuit**

 **VFD parameters, communication with PLC**

 **VFD troubleshooting**

**-** **Refrigerators & Air Conditioning**

 **Principles of refrigeration and air-conditioning system**

 **Refrigerators and air conditioning system mechanical circuits and protections**

 **Air Conditioning system & Refrigerators Electric control circuits**

 **Air Conditioning system & Refrigerators Trouble shooting**

**- Classic Control**

**- Electrical Distribution
- Industrial Automation (PLC - Sensors - Solenoids -Motors)**

**Training**

**- Toshiba**

**- Cairo Refinery**

**- Kaha Military Factory**

**Skills: Dealing with**

**- Electrical Power Systems: Generator, Transformer, UPS, SCR & VFD**

**- The Integration between Main Power Distribution, UPS & Emergency system**

**- Types of Motors & its Drives (AC, DC, Servo & special Motors)**

**- Automation systems: HMI, PLC, SCADA & DCS**

**- Hospital Instrumentation (ECG - MRI - Echo) & Clinical equipment management**

**- Microcontroller (8051 & PIC) projects by (assembly & C++) languages
- Engineering Packages: AutoCAD, Operating Systems & MATLAB**

**- Computer skills: (Word - Excel - PowerPoint)**

**Languages**

 **• English: Very good in writing, reading & conversation**

 **• German: good in writing, reading & conversation**