**Electrical Engineer since 2012**

**Name: Eslam Awwad Mohammed**

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**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**