


PERSONAL
INFORMATION

Azza Gasm Elseed

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JOB APPLIED FOR

Electrical Engineer.

WORK EXPERIENCE

01/2016–Present

Protection Engineer

Sudanese Electricity Transmission Company, Sudan

■ Setting Calculations:

- Setting preparation and coordination for 8 Petroleum Substation in Sudan, also prepared the operation strategy for best relaying scheme in those substations.
- Responsible for calculating the over current & earth fault setting for all power station in Sudan 'more than 80 substations' using ETAP software for coordination study including: 500/220/110/66/33/11Kv power stations.
- Prepared the distance protection calculations for transmission lines (Spanning: 1000 km) all over Sudan.
- Prepared the setting and the configuration files necessary to fulfil the protection, including relays provided by ABB, Siemens, MICOM, GE and ALSTOM among others.

■ Systems Studies:

- Performed short circuit analysis, load flow and transient analysis using ETAP, I recommended how to best address local and system wide implications under emergencies and faults.
- Analysed data using WaveWin, Comtrade and fault recorders (BEN5000, BEN6000 and SAC) in order to support the decision making process regarding fault analysis.
- Checked and validated signals connections to SCADA system and to different fault recorder type.
- Short circuit analysis study for the Wind power generation project in northern area of Sudan.

■ Testing and commissioning:

- Testing of power transformers, current transformers and voltage transformers, using CPC100, CT analyzer, primary injection, etc.
- Testing of digital, static and electromechanical relays, using OMICRON CMC256+, CMC356, SVERKER, etc.

- Performed regular and emergency maintenance.
- Performed Factory and Site Acceptance Tests on 220/110/33/11KV projects.

■ Projects & other:

- Prepared and managed factory acceptance test procedure, documents, validated results and proposed technical solutions for protection relays.
- Mentored lower level protection engineers and students from different universities.
- Prepared Engineering documents: functional specifications, technical design meetings, scheme checks, test plans, maintenance procedure and application notes for testing, installation and commissioning of protection relays: (DIFF, DIST, OC, EF, BBP, etc.).

11/2014–11/2015 **Trainee**

Sudanese Electricity Transmission Company, Sudan

- Office manager of the general director of the Operation and maintenance wrote all the work reports, analyzed the data, attended meetings and followed the progress in the duties given to the participants in meeting minutes.

ADDITIONAL
EXPERIENCE

6/2015-10/2018 **Teacher Assistant**

University of Khartoum, Sudan

- I worked in the University of Khartoum as a part timer tutor for the laboratory of ETAP and the laboratory of power systems protection for the 5th grade students. My work during this period constitutes the preparation of the lab sessions and helping the students in executing the required experiments.

7/2019-8/2020 **Lecturer, Graduates Project Supervisor**

Alsalama College of Science and Technology, Sudan

- In Alsalama College of Science and Technology I taught the 5th grade students a course in Power Systems Analysis. Also guide the students on power system projects and help them with the design and simulation of different scenarios and solution strategies.

7/2019-12/2019 **Trainer, Department manager**

Orientations Training Centre, Sudan

- Joined Orientations training centre as Power System engineering department manager. Trained the operation, maintenance, installation and devices engineers on Merowe Hydro power generation station on the ETAP software. The course was conducted on their office in Merowe town.

EDUCATION AND TRAINING

02/2017–07/2019	M.Sc. in Power Engineering University of Khartoum, Khartoum (Sudan)	EQF level 7
09/2009–10/2014	B.Sc. in Electrical and Electronics Engineering University of Khartoum, Khartoum (Sudan)	EQF level 6

PERSONAL SKILLS

Mother tongue(s)

Arabic

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	B2
IELTS Academic overall score 7				

Job-related skills

- Excellent analytical skill for faults, power interruptions, disturbances and relays performance.
- Excellent command of ETAP to perform all kind of power system analysis.
- Excellent with testing equipments from first use and manuals understanding.

Organizational skills

- Performed protection work on large and complex projects: substation commissioning, power transformers replacements down to relay replacements with punctuality, accuracy and exhaustive reporting.
- Contributed in innovative projects: impact studies of distributed energy sources and voltage profile studies using overvoltage relays and under-frequency in load shedding schemes.
- Made decision, maintained deadlines, worked under pressure and within teams.

Certificates

- Sudanese Electricity Transmission Company. Experience certificate.
- Sudanese Thermal Power Generation Company. Internship certificate.
- Sudanese Transformers Factory. Internship certificate.
- Transformers training course in Sudan by BEST Company, Turkey.
- ETAP software training course in Dubai by ETAP Company.

Honours and Awards

- Sudanese excellence scholarship to study the bachelor's degree, as I graduated with the 13th highest mark on the national scale from my secondary school (95.4 %)