MUSTAFA ELTIGANI IBRAHIM MOHAMMED

Date of birth: 8 Aug 1993 | **Nationality:** Sudanese | **Gender:** Male |

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Delhi Technological University,Bawana Rd, Shahbad DaulatpurVillage, Rohini, New Delhi,India, 11004, 11004, Delhi, India

WORK EXPERIENCE

20 APR 2018 – 31 DEC 2020 – Elfasher, Sudan
ELECTRICAL ENGINEER – KONI ENERGY CO.LTD

- Design , the configuration of MV Power Generation, control.
- Drawing circuit diagram of power system equipment for power plant
- Design layout of power system station
- Management power system project in Sudan
- Analysis and optimize power system operation issues
- Manage power system MV generator and transformer

9 FEB 2017 – 10 DEC 2017 – Khartoum, Sudan
POWER SYSTEM PROTECTION ENGINEER – SUDANESE THERMAL POWER GENERATION CO.LTD

- Protection system coordination and settings calculation for the whole national power grid.
- Handling daily events on the network. Analyzing faults and protection trips and solving problems.
- Testing and commissioning of power plants and substations (generators, power
- transformer, switchgear) with voltage levels: 220kv, 110kv, 33kv, and 11kv.
- Testing and commissioning of generation substations (power transformer, switchgear) diesel power plants(out of grid) 33/11KV
- Testing and commissioning of high voltage switchgear CT, VT, CB (220kv, 110kv, 33kv, 11kv, 6.6kv and low voltages).
- Sorting out the punch points of electrical equipment during and after erecting based on the contract,safety requirements, and relative standards
- Reviewing of technical specifications for new generators projects.
- Performing network protection studies using ETAP analysis tool.
- Performing protection system maintenance (corrective and preventive), for different voltage levels.
- Skills in operation of static and digital relays. Human man interface and knowledge to communicate to relays by manual and computer operated software
- methods to change the operating settings according to systems requirements.

1 FEB 2016 – 1 FEB 2017 – Elfasher , Sudan
ELECTRICAL SYSTEMS ENGINEER – SUDANESE THERMAL POWER GENERATION CO.LTD

- Design small, medium and large, PV-Plant projects with or without Grid connection with the Software Sunny Design Web SMA.
- Installs, repairs, and tests electrical equipment to maintain electrical power in buildings and structures, detect shortcuts and defective connections, and restores operation of non-functioning equipment.
- Installation of implementation Hybrid Energy System with SMA Equipment
- Commission and decommission a medium PV- Plants (50 to 500 kW).
- Diagnosing operational issues and troubleshooting, performing complex wiring installations, Repairing, test, troubleshoot, inspecting; and installing, remove and maintaining solar site equipment such as solar panels, inverters, transformers, breakers, switchgear, and SCADA equipment under the supervision of the Lead Solar Electrician.
- Completes written and electronic records (i.e. work orders, calibration sheets, time cards, material requests) required to document the work in progress and as it is completed.

1 APR 2015 – 1 APR 2016 – Elfasher, Sudan
ELECTRICAL ENGINEER – 3RE&C

- ○ Perform diagnostics and preventive maintenance of electrical systems, all electrical lighting and power systems, main distribution and control panels
- ○ for generators, water, and sewage distribution systems.
- ○ Install, service, maintain and repair electrical system components in compliance with recognized standards and regulations pertaining to safety
- ○ and installation codes of all electrical systems.
- ○ Diagnose technical faults and carry-out remedies for malfunctioning or defective electrical systems.
- ○ Analyzes electrical circuits, wiring diagrams, and drawings, and installs, repairs, calibrates, services, or replaces electrical devices and systems to
- ○ prevent overload.
- ○ Inspects, tests evaluates, calibrates, and updates generator systems, and wiring to improve reliability and to assure stability, safety, and compliance.

1 FEB 2013 – 1 JUN 2014 – Elfasher, Sudan
ELECTRICAL ENGINEER – SUDANESE ELECTRICTY DISTRIBUATION CO.LETD

EDUCATION AND TRAINING

1 AUG 2020 – CURRENT – Delhi Technological University, Bawana Rd,Shahbad Daulatpur Village, Rohini,Delhi, 11004, Delhi, India
MASTER OF TECHNOLOGY IN POWER SYSTEM ENGINEERING – Delhi Technological Unversity

26 MAR 2022 – 27 MAR 2022 – Delhi, India
ENERGY EFFICIENCY AND DEMAND RESPONSE IMPLEMENTATION IN BUILT INFRASTRUCTURE – Science and Engineering Reserch Board

3 FEB 2021 – 7 FEB 2021 – Delhi, India
ADVANCE MATLAB AND ITS APPLICATIONS (ADMAT-2021) – INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KOTA

1 DEC 2010 – 1 DEC 2015 – University of Nyala , South Darfur State , Nyala, Sudan , Nyala, Sudan
BACHELOR OF SCIENCE IN ELECTRICAL AND ELECTRONICS ENGINEERING – University of Nyala

1 MAR 2007 – 1 MAR 2010 – Elfasher , North Darufr State , Sudan , Elfasher, Sudan
HIGHER SECONDARY CERTIFICATE – Elfasher Modren Secondary School of Bys

20 JUN 2018 – 21 JUL 2018 – San Sebastian del los Reyes Madrid, Spain , Madrid, Spain
CERTIFICATE IN PREDICTIVE MAINTENANCE TESTS FOR POWER TRANSFORMERS – Unitronics electric

17 AUG 2017 – 12 SEP 2017 – Bangkok, Thailand
CERTIFICATE IN ELECTRICAL GENERATION PROTECTION SYSTEM – Chulalongkorn University at Bangkok

11 JUL 2017 – 20 JUL 2017 – Madrid, Spain
CERTIFICATE IN PROTECTION RELAYS, TRANSFORMER AND SUBSTATION TESTING – Polytechnic University of Madrid

LANGUAGE SKILLS

Mother tongue(s):   **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C1
HINDI	A1	A1	A1	A1	

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office ┃ Good familiarity with MATLAB, Simulink ┃ ETAB ┃ MATLAB Coding ┃ Wonderware InTouch SCADA (PLC-SCADA) ┃ Electrical Drawings

PUBLICATIONS

Mustafa Eltigani I. M, Uma Nangia, Intelligent PSO-PID Controller-Based Maximum Power Point Tracking (MPPT) for Photovoice System, Third International Virtual Conference on Power Engineering Computing and Control (PECCON'22) IEEE- Sponsored,May.2022

Mustafa Eltigani I. M, Uma Nangia, Fractional Order Fuzzy Logic Based MPPT Controller for the Photovoltaic System, National Conference on Emerging Trends in Electric -Mobility & Sustainable Development: Opportunities & Challenges (NCETEMSD-2K22). May.2022

Mustafa Eltigani I. M, Uma Nangia, and Gomaa Haroun A.H, "APPLICATION OF ADRC AND PID CONTROLLER TO DISTRIBUTED LFC FOR AN INTERCONNECTED MULTI-AREA POWER SYSTEM," IJESRT, vol. 10, no. 8, pp. 10–25, Aug. 2021.

Mustafa Eltigani I. M, Uma Nangia, and Gomaa Haroun A.H, "Modeling and Simulation of an Interconnected Multi-Area Thermal Power System Using hFLPID Controller Based Optimization Technique," IAR Journal of Engineering and Technology, vol. 2, no. 5, pp. 22–35, Oct. 2021.

HONOURS AND AWARDS

1 SEP 2020
Master of Technology Scholars – Indian Council for Cultural Relations

NETWORKS AND MEMBERSHIPS

29 JUN 2021 – CURRENT
International Association of Engineers (IAENG) Membership

Member No.287786