**ENG. FAITH MERCY GICUGU**

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**PROFESSIONAL SUMMARY**

Experienced power systems Engineer with outstanding background in EHV, HV, MV and LV systems design, test, commissioning and maintenance including rapid breakdown resolution. I have designed implemented and commissioned Major substations and electricity infrastructure across the major load centers in Kenya. I possess excellent communication and analytical skills which are critical in successful planning, implementation and commissioning of infrastructure projects.

**WORK EXPERIENCE**

**KENYA POWER & LIGHTING CO. PLC**

1. **TECHNICAL STANDARDS DEVELOPMENT ENGINEER**

* Development of new and Review of existing standards & specifications for use in procurement of tools, equipment and materials for electrical network
* Approvals of technical data & drawings before manufacture of tools, equipment and materials for use on the electrical network
* Procurement process for tools, equipment and materials for electrical network including Tender opening, Evaluation, negotiation, due diligence, Factory Inspections & Factory Acceptance Testing.
* Development of training modules for dissemination of user training
* Training technical employees on electrical grid skills and knowledge to enhance their competence in execution of their duties.
* Research and Development of Technical proposals to management for purposes of process improvement.
* Participation in project initiation, planning, implementation, evaluation and appraisal as well as commissioning for grid development and expansion

1. **REGIONAL POWER SYSTEM PROTECTION ENGINEER – NAIROBI REGION**

* Supervision duties in day to day operation of Nairobi region system protection section.
* Design of protection & control schemes for HV transmission and distribution systems (11kV -220kV systems) for new and existing apparatus.
* Implementation of schemes for power system protection, monitoring, instrumentation and communication equipment as per the design.
* Power System equipment performance analysis
* Routine inspection and maintenance for power system equipment in High Voltage transmission and distribution installation.
* System protection breakdown maintenance – Power transformers, Circuit breakers, system protection equipment and schemes.
* Energy loss management through installations, test, commissioning, routine inspections and maintenance of HV metering points (Feeders, Transformers and customer installations)
* Review of power system protection and control equipment performance to establish the viability of re-commissioning and overhaul in cases of mal-operation.
* Implementation of turnkey projects, a role critical in ensuring timely delivery of power projects.
* Participation in Factory acceptance tests for new Power system equipment.
* Power system analysis and fault Level calculation to ensure correct operation of protection equipment during system disturbances.

1. **POWER SYSTEM PROTECTION ENGINEER – NAIROBI WEST SUB-REGION**

* Design of protection & control schemes for HV transmission and distribution systems
* Power System equipment performance analysis and measurement of the power system protection performance index
* Routine inspection and maintenance for power system equipment in High Voltage transmission and distribution installation to ensure quality supply to utility customers
* System protection breakdown maintenance
* Implementation of turnkey projects
* Participation in Factory acceptance tests for new Power system equipment
* Power system analysis and fault Level calculation.
* Staff training and development including on-the-job training, formal classroom training and facilitation of external training to enhance employee competence

1. **GRADUATE TRAINEE**

Undertook one year graduate management training programme including on-the-job training.

**KINETIC CONTROLS LIMITED**

1. **OPERATIONS IN-CHARGE**

* Overall in-charge of Electrical and Electromechanical installations and equipment at our major client’s offices - UN office in Nairobi, my duties and responsibilities included: -
* Supervision of maintenance of Electrical & Electro-mechanical facilities at UN Complex Nairobi.
* Design of new LV electrical installations for new premises as well as refurbishment works
* supervision of all new projects for installations of electrical & electromechanical equipment for Low Voltage customer supply.
* Management of staff affairs and all other company operations to ensure smooth running and achievement of company goals and objectives.

1. **DATA ANALYST**

* Computer and Network administration, troubleshooting and problem solving for ICT infrastructure for the company.
* Data analysis and generation of monthly report on status of all electrical & electro-mechanical installations

**FINCOM TECHNOLOGIES LIMITED**

1. **INTERNSHIP**

* Projects in network installations - structured cabling and network equipment configurations
* Routine maintenance for computers and accessories for different clients.
* Workshop duties - repair of faulty office equipment such as printers, desktops, monitors, scanners and Laptops
* Sales, customer service and technical support for IT services, ATMs and banking equipment

**UNIVERSITY OF NAIROBI, INSTITUTE OF NUCLEAR SCIENCE**

1. **COMPUTER PROFICIENCY INSTRUCTOR**

* Handling students in IT lessons for certification by UNESCO in conjunction with Institute of Nuclear Science – University of Nairobi. Subjects taken include
* Worked at the computer Garage for assembly of new computers branded NUN, installation of operating systems and application software, as well as IT support for NUN customers.

**EDUCATION – QUALIFICATIONS – TRAINING**

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| Subject / Training | Grades / Qualifications | Institution |
| Master of Business Administration | In progress | University of Nairobi |
| B.Sc. Electrical & Electronics Engineering | Second Class Honors | University of Nairobi |
| Registered Professional Engineer | Professional Registration | Engineers Board of Kenya |
| Registered Professional Engineering Technologist | Professional Registration | Kenya Engineering Technologist Registration Board (KETRB) |
| Graduate Management Training | Certification | Institute of Energy Studies and Research - Kenya Power |
| Analysis and Protection of Power system | Proficiency | Areva T&D |
| Advanced Power System Protection & SCADA | Proficiency | Egyptian Electricity Holding Company |
| MicroSCADA sys 600 Application Engineering | Proficiency | ABB Finland |
| Process display Engineering & Operation | Proficiency | ABB Finland |
| Electrical Safety Awareness | Authorized person | Kenya Power |

**SKILLS**

* Power systems design and development
* Distributed generation
* Art of Power system protection
* Workplace safety
* Control Systems
* Supervisory skills
* Standards development and compliance
* Project management
* Test and commissioning
* System modelling and simulation
* Risk management

**MAJOR PROJECTS**

1. Refurbishment of 3x90MVA 220/66kV Embakasi substation
2. 2x60MVA 132/66/11kV Ruaraka substation
3. 4x60MVA 132/66/10kV Juja road substation
4. 100MW wind generation design, test and commissioning at Isinya
5. Various New distribution substations across Nairobi region

**REFEREES**

Eng. Kahoro Wachira, Chief Engineer, Technical Training

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