

## Eng. Francis Muriithi Maina

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### Bio Data

**Gender:** Male

**Marital Status:** Married

**Date of Birth:** 18<sup>th</sup> June 1978

**Nationality:** Kenyan

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### Personal Profile

A competent professional, with over 14 years of experience possessing strong practical and technical skills in Electrical/ Electronic Engineering. I am able to design and develop projects to required specifications, focusing on economy, safety, reliability, quality and sustainability. Possessing the ability to successfully complete a project from the concept and detailed design through to implementation, testing and handover. I am also a self-motivated professional with the talent to develop and foster creative and innovative solutions.

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### Education

June 2012 to Date	<b>Masters in Business Administration, Strategic Management Option</b> Jomo Kenyatta University of Agriculture and Technology
1998 - 2002	<b>Bachelor of Science in Electrical/ Electronic Engineering, Light Current Option</b> Jomo Kenyatta University of Agriculture and Technology
1993 - 1996	<b>Kenya Certificate of Secondary Education</b> Kianyaga High School

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### Skills

- **Technical Skills:** I have a vast amount of technical knowledge in mechanical works. I am creative and can think of new and innovative ways to develop new systems and make existing things work more efficiently.
- **Engineering skills:** Knowledge of the practical application of Electrical and Electronics Engineering. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.
- **Project Management:** Ability to lead a team, manage and coordinate the planning, budgeting, implementation and business development activities of a project.
- **Communication Skills:** I am an excellent communicator who effectively conveys information both verbally and in writing. I am also a keen listener and gives prompt feedback.
- **Prepared and Organized:** I ensure that I have materials and skills required to perform a task. These are important and will help me overcome obstacles and last minute issues.
- **Analytical Skills:** I can recognize areas of weaknesses requiring improvements and make recommendations to the management for consideration, approval and implementation.
- **Computer Skills:** Proficient in Linux Operating System, Ms 2000/2003/2007 Server, Ms Windows Operating Systems, Microsoft packages, MYSQL, Programming Languages (C, C++, FORTRAN, MatLab) and Design Softwares (AutoCAD, Ms Visio, Circuit Maker).

## Work Experience

**Dec 2016 to Date**

**The Kenya Power and Lighting Company Ltd, Central office**

**Position:** Senior Engineer – Infrastructure Development Division, Central Office Department

**Responsibilities:**

- Design, Procurement and installation of 11kV and 33kV Distribution management system (DMS) for the KPLC larger Nairobi area.
- Installation and commissioning of the Mombasa area Distribution Automation system (DAS)

**Feb 2016 to Nov 2016**

**The Kenya Power and Lighting Company Ltd, Central office**

**Position:** Senior Engineer – Information Communications and Technology (ICT), Central Office Department

**Responsibilities:**

- Procurement and ensuring that all the air conditioning, Back-up Power (UPS), Fire detection and suppression systems are all working.
- Deputizing the Chief Technical Officer, Data Telecoms division in the day to day operations of Data Networks including ensuring that all the systems are available across the whole country.

Planning for preventive maintenance and curative maintenance and management of the Service Level Agreements (SLA's) for the 2No. Data Centre of Kenya Power (Stima Plaza and electricity House, Nairobi) for Air Conditioning, Fire detection and suppression systems, Uninterruptible Power Supplies (UPS's).

**Oct 2012 to Feb 2016**

**The Kenya Power and Lighting Company Ltd, Central office**

**Position:** Assistant Engineer II - IT and Telecommunications, Central Office Department

**Responsibilities:**

- Procurement and ensuring that all the air conditioning, Back-up Power (UPS), Fire detection and suppression systems are all working.
- Deputizing the Chief Technical Officer, Data Telecoms division in the day to day operations of Data Networks including ensuring that all the systems are available across the whole country.

Planning for preventive maintenance and curative maintenance and management of the Service Level Agreements (SLA's) for the 2No. Data Centre of Kenya Power (Stima Plaza and electricity House, Nairobi) for Air Conditioning, Fire detection and suppression systems, Uninterruptible Power Supplies (UPS's).

**Oct 2008 - Oct 2012**

**The Kenya Power and Lighting Company Ltd, Central office**

**Position:** Assistant Engineer III - IT and Telecommunications, Central Office Department

**Responsibilities:**

- Total involvement in the KPLC SCADA/EMS replacement/Upgrade project involving Data Engineering, Site surveys, Data generation, SCADA and Telecommunications equipment installations.
- Planning of shutdowns to carry out substation Scada interfaces, OPGW and Approach (underground fibre) cable splicing and OTDR tests (1330nm and 1550nm)
- Configurations of Fibre Multiplexers (cross connection of both FOX 515, FOX 512 from ABB).

**Mar 2006 - Sept 2008**

**The Kenya Power and Lighting Company Ltd, Nairobi**

**Position:** Assistant Engineer IV- IT and Telecommunications, Nairobi Region Department

**Responsibilities:**

- Maintenance of Power Line Carriers, SCADA system, PABXs, Trunking radio systems, Microwave links and Local and Wide Area Networks.

## Other Positions Held

- **March 2005 - March 2006:** Apprentice Engineer at The Kenya Power & Lighting Company Ltd, Nairobi
- **Aug 2003 - Feb 2005:** Senior Electrical Services Design Engineer / Network Administrator at Geomax Consulting Engineers, Nairobi
- **Feb - Aug 2003:** Technical / Sales Engineer at Forecast Electronics Solution, Nairobi.
- **Feb - March 2002:** Industrial attachment - Protection and Instrumentation Section at KENGEN Co. Ltd, Gitaru Hydroelectric Power Plant.
- **Jan - Feb 2002:** Industrial Attachment at KENGEN Co. Ltd, Central workshop-Nairobi.
- **Jan - March 2001:** Industrial Attachment at Kenya Broadcasting Corporation (KBC), Nairobi.
- **Jan - March 2000:** Industrial Attachment at Power Technics Limited.

## Additional Information

### Memberships

- Professional Engineer, Registration No. A.2566 - Engineers' Board of Kenya (EBK).
- Corporate Member, Registration No. M.2753 - Institution of Engineers of Kenya (IEK),
- Registered Class 'A' Engineer - Communications Authority of Kenya (CAK).
- Registered class 'A1' Electrical installer, Energy Regulation Commission (ERC).
- Cisco Certified Network Associate, CCNA, CSC011308103.
- Certified Fibre Optic Technician (CFOT), with Fibre Optic Association (FOA), Reg. No. 7160377.

### Projects

- Ongoing: Project Manager during the Phase 2 of the Supply and installation of 11kV and 33kV Distribution Automation system for Nairobi City and her environs. Involving setting up of the Mini Scada system, UHF radio communications system and replacing 670No. 11kV, 33No. 33kV air-break switches and 46No. 66kV air-break switches and 200No. Ring Main Units with a total automated system.
- Ongoing: Project Manager during the Phase 2 of the Supply and installation of 11kV and 33kV Distribution Automation system for Mombasa Island and her environs. Involving setting up of the Mini Scada system, UHF radio communications system and replacing 87No. 11kV and 57No. 33kV air-break switches and 2No. Ring Main Units with remote controlled load break switches and Ring Main Units respectively.
- Project Manager during the Supply and installation of 11kV and 33kV Distribution Automation system for Mombasa Island and her environs. Involving setting up of the Mini Scada system, UHF radio communications system and replacing 97No. 11kV and 58No. 33kV air-break switches and 12No. Ring Main Units with remote controlled load break switches and Ring Main Units respectively. Funded by Kenya Power & Lighting Company Ltd.
- Project Manager during the Pilot project on Supply and installation of 11kV Distribution Automation system for Nairobi CBD and her environs. Involving set up Mini Scada system, VHF radio communications system and replacing the 150No. 11kV air-break switches and 50No. Ring Main Units with remote controlled load break switches and RMUs. Funded by Kenya Power & Lighting Company Ltd.
- Project Manager during the Supply and installation of redundant Uninterruptible Power Supply (400kVA) to Stima Plaza Data Centre involving supply of 4No. 100kVA UPSs, cabling, 500kVA Automatic voltage Regulator, Distribution boards, testing and commissioning. This is to be done in Redundant Parallel architecture (RPA). Funded by Kenya Power & Lighting Company Ltd.

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- 2007 - 2008: Project manager during the Design and installation of Ruaraka, Roysambu and N/West offices data and voice Infrastructure, cost KShs. 3.0M, funding: KPLC
  - 2007: Project manager during PABX installation in KPLC Ruaraka complex, cost KShs. 2.2M, funding: KPLC
  - Team Leader at VSAT installations in Nairobi and North Eastern regions (Moyale, Mandera, Merti, Marsabit, Habaswein, Sultan Hamud, Uchumi –Ngong rd, Msa rd, Langata).
  - Team Leader: Executed 33No. Substations (220kV, 132kV, 66kV, and 33/11kV) from Scada designs through data engineering to interfaces, installations, testing and commissioning as a Scada Engineer.

#### **Positions of Responsibilities**

- 2000 - 2001: Assistant Organizing Secretary, JKUAT Catholic Community.
- 1999 - 2001: Project Co - ordinator JKUAT HIV/AIDS Awareness and Educators.
- 1998 - 2001: Secretary General, Kirinyaga University Students' Association.

#### **Affiliations**

- Jomo Kenyatta University of Agriculture and Technology Fire Fighters/ Brigade Group.
- Society of Engineering Students (SES).

#### **Hobbies and Interests**

- Football, Volleyball, Shotokan, Swimming, Singing and Listening to Hymns

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### **Referees**

Eng. Joseph Kariuki  
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