

# CURRICULUM VITAE

**MR. JEFF MASIKA WANJALA**

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<b>Personal</b>	Date of Birth	21 March, 1992
	ID Number	29596163
	Nationality	Kenyan
	Driving License	Yes

**Profile Summary** I am a competent Electrical and Electronic Engineer with 5 years' experience and training in electrical and telecommunication systems design, installation, testing and commissioning to required standards and specifications. I am a hardworking, self-motivated, ambitious and attentive to detail individual with good interpersonal and leadership skills. I have the ability to learn, accept advice, criticism and work in a team and under pressure to meet deadlines.

**Education** **Jomo Kenyatta University of Agriculture and Technology 2010- 2015**  
BSc. Electrical and Electronic Engineering  
**Kabarnet High School, Mombasa 2007-2010**  
**Kings Academy, Mombasa 1997-2006**

**Member** **2017 ENGINEERS BOARD OF KENYA**  
Graduate engineer (**B11819**)  
**2018 INSTITUTE OF ENGINEERS KENYA**  
Graduate Engineer (**G6749**) **2018**

## **Work Experience**

**Dec, 2019 – Present** **POWER CHINA/HYPEC. - Nairobi (Site Supervisor)**  
**Duties and Responsibilities**

- Design of transformers as per client requirements.
- Supervision of testing process of transformers and other substation equipment and preparation of reports.
- Preparation of Test procedures & documentation.
- Preparation of quotations and liaising with clients.
- Design of LV and MV panels electrical system layout.
- Interpretation of electrical drawings and schematics.
- Supervising and commissioning of MV, HV and LV lines
- Implemented new standards and guidelines issued by industry

regulators, company managers, and HSE engineers.

- Identified necessary projects and took the initiative to develop an appropriate response to each one.
- Conducted site inspections on a pre-determined basis to ensure the on-going adherence to all applicable standards and regulations.

**Nov, 2017 – Dec, 2018**

**GATEWAY INTERNATIONAL LTD. – Nairobi  
(Site Supervisor)**

**Duties and Responsibilities**

- Design of electrical systems to match up to the customer needs.
- Design of power substations.
- Testing of generation and distribution substation equipment.
- Implemented new standards and guidelines issued by industry regulators, company managers, and HSE engineers.
- Identified necessary projects and took the initiative to develop an appropriate response to each one.
- Conducted site inspections on a pre-determined basis to ensure the on-going adherence to all applicable standards and regulations.
- Pre-commissioning and maintenance of electrical installations and equipment of HVAC (AIS) Substation and power plants.
- Interpretation of electrical drawings and schematics.
- Preparation of project quotations.
- Preparation of project reports
- Preparation of Pre-Qualification and Tender documentation for Projects.

**Feb, 2017 – Oct, 2017**

**RURAL ELECTRIFICATION - Nairobi (Project Supervisor)**

**Duties and Responsibilities**

- Project Management.
- Preparation of project reports
- Preparation of project quotations.

**July, 2016 – Feb, 2017**

**Finix Cas - Nairobi (Maintenance Technician)**

**Duties and Responsibilities**

- Responsible for designing, troubleshooting and maintaining the network system in the casino.
- Maintenance, troubleshooting and repair of gaming machines and other casino equipment and systems.
- Maintenance and servicing of air conditioners and casino generator.
- Keeping inventory levels for new electrical supplies to be ordered and purchased as required.

**Feb, 2016 – June, 2016**

**Geothermal Development Company-Nakuru (Graduate Intern)**  
**Duties and Responsibilities**

- Synchronization of generator sets
- Maintenance and servicing of high power generators
- Maintenance, troubleshooting and repair of rig sensors and actuators.
- Servicing of motors and high power pumps.
- Monitoring and troubleshooting of SCR system

**Feb, 2015 - May, 2015**

**Geothermal Development Company- Nakuru (Intern)**  
**Duties and Responsibilities**

- Synchronization of generator sets
- Maintenance and servicing of high power generators
- Maintenance and troubleshooting rig sensors and actuators.

**Jan, 2013 - April, 2013**

**Kenya Power-Nairobi (Intern)**  
**Duties and Responsibilities**

- Maintenance of high and medium power lines and transformers.
- Overhead and underground cable laying

## **ACHIEVEMENTS AND PROJECTS UNDERTAKEN**

### **GATEWAY INTERNATIONAL COMPANY LIMITED**

<b>PROJECT NAME</b>	<b>ACTIVITIES CONDUCTED</b>
<b>Testing And Commissioning Of The New Kenya Pipeline System</b>	The stations along this pipeline included: Pump Station 1: Changamwe, Pump Station 14: Kipevu, Pump Station 3: Maungu, Pump Station 5: Mtito Andei, Pump Station 7: Sultan Hamid and Pump Station 9: Nairobi
Jan, 2018 – Feb, 2018	<p>The activities I was involved in included:</p> <ul style="list-style-type: none"><li>• Preparation of work schedule for the project as per the stipulated timeline.</li><li>• Conducting of all necessary tests of substation panels and equipment including transformers, circuit breakers, voltage transformers, current transformers and isolators.</li><li>• Preparation of project reports on completion of testing and commissioning to handing over to client.</li></ul>

<p><b>Extension And Intergration Of 132/33kv Naivasha-Makutano Substations To Existing Network</b></p> <p>March 2018 – March, 2019</p>	<p>Assigned as the Planning and testing Engineer for this project, I was directly under the Project Manager and was able to accomplish the below;</p> <ul style="list-style-type: none"> <li>• Ensured that all site operations were carried out in a safe productive manner.</li> <li>• Interpreted project-related diagrams and drawings.</li> <li>• Recommended ways to improve the efficiency of project operations.</li> </ul> <p>This project involved:</p> <ul style="list-style-type: none"> <li>• Installation of 132/33kv Panels and Switchgear to existing substations.</li> <li>• Civil and mechanical works to integrate the new equipment to the existing substations.</li> <li>• Testing of substation equipment including power transformers, circuit breakers, current transformers, voltage transformers, isolators, current transformers and isolators.</li> </ul>
<p><b>Testing And Commissioning Of 50MW Garissa Solar Power Plant</b></p> <p>August, 2018 – October, 2018</p>	<p>Created and carried out test procedures on newly installed 50 MW Garissa Solar Power Plant Substation, currently the largest solar plant in East Africa.</p> <p>I successfully completed testing and commissioning of the below transformers:</p> <ul style="list-style-type: none"> <li>• 1MVA Transformers totaling 31 in number.</li> <li>• 21MVA Transformer.</li> </ul>
<p><b>Testing And Commissioning Of Olkaria 4 And Olkaria 5 Substations</b></p> <p>November, 2018 – February, 2019</p>	<p>Prepared and carried out test procedures on newly installed 220 kV Olkaria 5 Substation and Olkaria 4 Extension Bay.</p> <p>Assisted in the installation, testing and commissioning of LV, MV and HV switchboards and switchgears.</p> <p>Compiled commissioning reports data for submission to client.</p>
<p><b>Testing And Commissioning Of 132 Kv Mamboleo Substation Extension Bay</b></p> <p>March, 2019 – April, 2019</p>	<p>This project involved testing and commissioning of newly installed line bays in the existing Mamboleo substation located in Kisumu.</p> <p>The activities I successfully conducted are as follows:</p> <p>Preparation of work schedule for the project as per the stipulated timeline.</p> <p>Assisted in installation of LV and MV panels and switchgear that I later tested and commissioned.</p> <p>Compiled commissioning reports data for submission to client.</p> <p>Performed wiring checks as per the schematic drawings.</p>

<b>Testing And Commissioning Of 33/11kv Kisumu South Substation</b>  June, 2019 – July, 2019	This project involved testing and commissioning of newly installed 33/11kv substation located in Kisumu South region that would be responsible for supplying power to the State House and Kisumu Port. The activities conducted are as follows: Preparation of work schedule for the project as per the stipulated timeline. Complete substation equipment testing.
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## POWER CHINA CONTROLS LIMITED

PROJECT NAME	ACTIVITIES CONDUCTED
<b>Upgrading and installation of new lighting system at Safaricom Customer Care Centre in Thika</b>	As project manager, oversaw from start to completion of: <ol style="list-style-type: none"> <li>1. The design and installation of a new lighting system at Safaricom Customer Care Centre in Thika.</li> <li>2. The replacement of existing fluorescent bulbs with LED lamps.</li> </ol>
<b>Replacement of Rectifiers and Batteries in Safaricom BTS Sites</b>	As project manager, oversaw from start to completion of: <ol style="list-style-type: none"> <li>1. Replacement of rectifiers in Safaricom BTS Sites located in Western and Nyanza region.</li> <li>2. Replacement of batteries in Safaricom BTS Sites located in Nairobi, Western and Nyanza region.</li> </ol> Completed successfully without any network outage/interruption.

## FINIX CASINO

PROJECT NAME	ACTIVITIES CONDUCTED
<b>Installation of advertisement display screen</b>	Designed, installed, programmed and commissioned a roadside advertisement screen for the casino.

## Skills and Technical Experience

- Proficient in the use of all Office Programs including but not limited to Excel, Ms Project, Power Point, and Word.
- Preparation of project reports
- Experience in Project Management all through implementation stage to handing over.
- Hands on control, troubleshooting and instrumentation skills
- Programming in C and C++ language.
- Proficient in the use of Electrical and electric design software such as AutoCAD, Proteus and NEPLAN.
- Substantial knowledge of engineering principles and extensive understanding of construction operations.
- Knowledge of Protection systems used in power systems (differential protection, earth fault, restricted earth fault, sensitive earth fault, line distance, over current, frequency (UF/OF), Voltage (OV/UV).
- Experienced in planning, site management, project execution & client liaison.
- Knowledge of pre-commissioning and maintenance of new electrical installations and equipment.
- Proficient in substation relays and automation software including but not limited to PCM600, DIGSI and Automation Studio.
- Skilled in the installation of Low, Medium and High Voltage panels and switchgear with the ability to interpret electrical single line diagrams, cable and schematic diagrams.
- Extensive knowledge of the Kenyan grid network having worked with energy utility companies such as Kenya Power, Ketraco, KENGEN, GDC and REA.

## REFEREES

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