*CURRICULUM VITAE*

**Kavita Fidelis Muli**

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**PERSONAL DETAILS**

**Date of birth:** 4th April 1977

**Gender:** Male

**Marital status:** Married

**Nationality:** Kenyan

**ID Number:** 14621369

**Languages:** English and Swahili

**WORK EXPERIENCE**

***June 2019-Up to Date Savvy company ltd,***

Lead engineer; Business Development and operations

* Supervision of team involved in construction and design projects.
* To deliver projects based on the project matrixes ad project goals.
* Ensure growth and sustainability of the business
* Identify leads and convert to opportunity for execution.
* Management of vendors and other subcontractors.
* Ensuring that all work has been invoiced and participating in joint measurement programs
* Cash flow management of projects to confirm that they are delivered on time and budget
* Liaison with the main contractor to ensure proper scope of works
* Participate in the preparation of a comprehensive business plan to ensure business growth.
* Lead the Business development activities including Tendering and negotiation for new work
* Ensure compliance with Management System in respect to Risk, Approvals, Safety, Quality and Supplier engagement
* Delivery projects safely, successfully and profitably

***Key engagements***

• The planning and execution of last mile schemes in various counties in the country. Last mile projects involve the design and construction of 33kV, 11kV and low voltage reticulation to customers. We are working in the following counties Embu, Marsabit and Samburu.

* Design of a 66kV line in Ngong for a wind project.
* Project management for a 110kV substation and a 220kV substation in Kigoma and Gasare in Rwanda
* Electrical feasibility studies, power system studies, grid interconnection studies and front-end electrical designs for a small hydro power project in western Kenya

***August   2017-May 2019 AECOM, Head of power- East Africa;***

Head of Power-East Africa

* To act as the construction supervision consultant on behalf of a client.
* To deliver an exemplary safety performance consistent with safety-critical design and construction roles in the Power Sector.
* Support the leadership team for sustainable and profitable growth
* Identify leads and convert to opportunity for execution.
* Support and input to the preparation of a comprehensive business plan with the operational team
* Lead the Business development activities including Tendering and negotiation for new work
* Ensure compliance with Management System in respect to Risk, Approvals, Safety, Quality and Supplier engagement
* Delivery projects safely, successfully and profitably

**Key engagements**

* The development of the technical documentation for the feasibility study for the Olkaria VI geothermal project.
* The development of the grid interconnection plan for a 40MW wind project for a wind power project in Kenya.
* The design, interconnection studies, harmonic studies and equipment approvals for the Kangas and excelsior wind power stations in South Africa.
* The electrical fit-out design and supervision for the Novartis office building and the AECOM office in Nairobi
* .

***July 2016 -August 2017, Kenya Power and lighting Co.ltd, Chief Engineer South Nyanza;***

Network services

* Supervision of the ongoing substation projects in the region to ensure that they are completed.
* Coordination of System outages to include the new substations and equipment into network.
* Maintenance of primary and secondary substations.
* Approval of substation layout plans construction plans based on international standards and laid out specifications.
* Grading of protection relay and other protection devices.
* Participation in Factory acceptance tests.
* Commissioning new electrical equipment and protection systems.
* Participation in the tender evaluation process and preparation of the recommendations for contract Awards.
* Ensuring that turnkey ( EPC)contractors adhere to both Environmental and Safety standards,
* Closure and Capitalisation of the implemented projects.
* Management of hybrid off-grid stations.

Key Engagements

• Distribution planning of the south Nyanza region which lead to the establishment of various Substations and switching stations in the area like Kenyancha 132kV substation, Kehanacha 132kV substation Migori 33kv switch station and Emberege switch stations.

• The design and construction supervision and commissioning of the following substations, transmission lines and switching stations in the area. 7.5MVA 33/11KV Nyamira substation, 7.5MVA 33/11KV Oyugis substation, 23MVA 132/11KV Migori substation, 23MVA 132/11KV Homabay substation.

• operation and maintenance of the following substations in south Nyanza 132kV Kegati substation, 33/11kV Nyamira substation, 33/11kV Awendo substations and other stations.

• protection coordination and siting of protection devises in the region. My work involved the calculation of the fault levels of the feeder’s and substations and siting them to ensure proper fault isolation and discrimination.

• Management of isolated hybrid power stations in Lake Victoria. My work involved ensuring that the diesel engines were well maintained, the protection coordination of feeders from the ini grid, ensuring that a good power factor is maintained in the mini grid.

• Ensuring that voltage regulation the region meet the grid code requirements. I proposed and installed several Automatic voltage regulation devises in the region

***November 2015 -July 2016, Kenya Power and lighting Co.ltd, Acting Chief Engineer South Nyanza;***

Network services

* Supervision of the ongoing substation projects in the region to ensure that they are completed.
* Coordination of System outages to include the new substations and equipment into the network.
* Maintenance of primary and secondary substations.
* Approval of substation layout plans construction plans based on international standards and laid out specifications.
* Grading of protection relay and other protection devices.
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* Closure and Capitalisation of the implemented projects.
* Management of hybrid off-grid stations.

***July 2013-to November 2015, 1st Assistant Engineer ,Kenya Power and lighting Co.ltd, central office;***

*Energy Sector Recovery Program (ESRP)*

* Supervision of the ongoing turnkey projects to ensure that they are completed in a timely and standard manner.
* Coordination of System outages to include the new substations and equipment intothe network.
* Reviewing and Approval of Material and equipment to be used in the implementation of the project according to the laid down specifications and design standards.
* Approval of substation layout plans construction plans based on international standards and laid out specifications.
* Preparation of tender documents and specifications based on IEC, IEEE and other internationally accepted standards for new substations and distribution lines.
* Administration of the tendering process for the new substations and lines.
* Participation in Factory acceptance tests.
* Commissioning of the systems and equipment.
* Participation in the tender evaluation process and preparation of the recommendations for contract Awards.
* Ensuring that turnkey ( EPC)contractors adhere to both Environmental and Safety standards,
* Closure and Capitalisation of the implemented projects.
* During the time I was in the project, I participated in the implementation of various projects below, where I gained valuable practical experience in various aspects of MV network distribution projects as detailed below:

**Key Engagement**

* The preparation of Bid documents, tender evaluation and project supervision. Some of the projects he was involved in include,
* 132kV Maungu substation, 220kV Kainuk substation,33/11kV Bahati substation, 66/11kv Thika north substation, 132kV Mangu substation expansion, Ukunda and Diani substations expansions among others.
* preparing funding proposals to development agents for the funding of the above projects.
* Fidelis was also involved in the development and training of distribution and protection and maintenance standards which are currently used by Kenya power

***July 2009-July 2013- Kenya Power and Lighting Co Ltd*., 2nd Assistant Engineer,** *Central Office.*

*Turnkey Projects.*

* Supervision of the ongoing turnkey projects to ensure that they are completed in a timely manner.
* Coordination of System outages to include the new substations and equipment into the network.
* Reviewing and Approval of Material and equipment to be used in the implementation of the project according to the laid down specifications and design standards.
* Approval of substation layout plans construction plans based on international standards and laid out specifications.
* Preparation of tender documents and specifications based on IEC, IEEE and other internationally accepted standards for new substations and distribution lines.
* Administration of the tendering process for the new substations and lines.
* Participation in Factory acceptance tests.
* Commissioning of the systems and equipment.
* Participation in the tender evaluation process and preparation of the recommendations for contract Awards.
* Ensuring that turnkey ( EPC)contractors adhere to both Environmental and Safety standards,
* Closure and Capitalisation of the implemented projects.

**Key Engagements**

• The preparation of Bid documents, tender evaluation and project supervision. Sone of the projects he was involved in include,

• 90km 33kV interconnector from Nakuru to Naivasha, 66kV and 33kV line to Lamu Island, The development of the bidding documents tender evaluation and supervision of the following substations and feeders 66kV Mai Mahiu substation,33kV Kihoto substation,33kV Olkalao substation, 33kV Matundura substation among others.

• Preparing funding proposals to development agents for the funding of the above projects.

***January 2009-June 2009-3rd Assistant engineer, Kenya Power and Lighting Co. Ltd, West Kenya –Kisumu,***

*Design Department*

* Design of distribution lines of 33KV, 11kV and 0.433kVlines.
* Preparation of bills of quantities for projects to be implemented
* Approval of designs done by other designers and supervision of both Kplc and contracted designers.
* I was involved in the integration of labour and transport contractors in the Kenya power system.

Some of my main achievements in this period include

* The Organisation of crash program which led to the resolution of old customer applications
* Design of Agata Njipship line which is currently the main line suppling Kilgoris Town

***June 2006- January 2009-3rd Assistant Engineer, Kenya Power and Lighting Co. Ltd, West Kenya-Kisumu***

*Construction department*

* Designing customer schemes, rural electrification as well as network reinforcement schemes.
* Construction of all the Sub -transmission and distribution systems and in particular 33KV, 11kV, 0.415kV and 0.240kVsystems.
* Managing and monitoring the contracting, execution, and control of the Construction project within the west Kenya sub-region.
* Managing construction teams and labour and transport contractors in the implementation of projects.
* Ensuring that construction schemes are constructed and implemented within the stipulated budget.
* Closure of both capital schemes and service lines before capitalization.
* Quality control of the sub-transmission and distribution network installations of sub-region.
* Operation and Maintenance of sub-transmission lines in the system (within the Kisumu area).
* Operations and Maintenance works including supervision of teams during both planned and emergency outages.
* During the period I was in construction I successfully completed the following schemes.
  + Supply to United millers’ feeds factory from Obote road sub-station
  + Supply to Kisii bottlers.
  + Supply to Safaricom, Manga.
  + Supply to Safaricom Chwele.
  + Makasembo customer creation scheme.
  + Gita customer creation scheme

***February 2004-June 2006- 4th Assistant Engineer, Kenya Power and Lighting Co Ltd., West Kenya, Kisumu.***

*Design and business development.*

* Designing customer schemes, rural electrification as well as network reinforcement schemes.
* Determination of customers applied load through the calculation of maximum diversity load.
* Approval of Design schemes from both contract designers and Kenya power designers.
* Processing payments for contract designers.
* Ensuring that Design schemes are done as per Kenya power and international standards.
* Verification of applied loads.
* Preparation of customer quotation letters and development estimates
* Preparation of bills of quantities for projects to be implemented
* Operation and Maintenance of sub-transmission lines in the system (within the Kisumu area).

***February 2003- February 2004*- Apprentice Engineer, Kenya Power and Lighting Co Ltd.,** *Apprentice Engineer-Training school-Nairobi*

***April 2002-February 2003* - Copper belt Limited.** *system support-**Machakos-*

* Repair and service of computers.
* Repair and servicing of computer peripheral devices e.g. printers, monitors etc.
* Cybercafé management...
* Connection of customers to dial-up connections.
* Computer support.
* Computer Hardware Support, Repair and Maintenance

***June-July 2000* - MicroLAN Kenya Limited.** *Nairobi*

*Industrial Attachment (Electrical and Communication Engineering)*

* Repair and service of Dell computers.
* Repair and servicing of computer peripheral devices e.g. printers, monitors etc.
* Computer network design, installation and repair.
* Demonstration of new computers and laptops.
* Computer support.

***July-Aug 1999* - Kenya Meteorological Department.** *Nairobi*

*Industrial Attachment (Electrical and Communication Engineering)*

* Wide and local area networks.
* Network administration.
* Wind sounding equipment. (For the mobile weather stations.)
* Radiotelephone repair and maintenance.
* U.H.F transmitter/receiver repair and maintenance.

***May-Aug 1998*** **- *Moi University Engineering Workshops*,** *Eldoret*

*Workshop Practice (Electrical and Communication Engineering)*

* Electrical Engineering practical skills.
* Operation of lathe machines.
* Welding.

**PROFESSIONAL ACREDITATION**

* Register professional Engineer ERB number A3095
* Corporate Member IEK number M.3969.
* Project manager (PMI)- 2329528

**PROFESSIONAL COURSES ATTENDED**

* Sinapis program
* Distribution standards.
* AutoCAD (Basic course).
* Project Management (Ms projects)
* Distribution standards training.
* Finance for non-finance managers.
* Apprentice engineer KPLC-Duration One Year.
* Environmental safety and occupational hazards-2 weeks
* Electrical safety and work procedures.
* Project management.
* Customer service.
* HIV/AIDS awareness.

**EDUCATION**

*2013-2015* - **Jomo Kenyatta University of agriculture and technology,** *Thika*

* MSC. Energy technology.
  1. **- Moi University,** *Eldoret*
* Bachelor of technology, Electrical and Communication Engineering (Second Class Honours, Lower Division)
  1. **- Moi Forces Academy,** *Nairobi*
* Kenya Certificate of Secondary Education - KCSE (B+ (plus) aggregate)
  1. **- Machakos Primary School,** *Machakos*
* Kenya Certificate of Primary Education - KCPE (533 marks out of 700 marks)

**POSTGRADUATE COURSES**

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| **Core Courses** | | |
| Wind Energy. | Solar Thermal Energy. | Hybrid systems. |
| Energy Use and Resource Management. | Biomass Energy.  Photovoltaic systems | Seminars and report writing  Energy economics and policy. |
| Research Methodology. | Hydroelectric energy |  |
| Environmental Impact analysis | Geothermal energy |  |
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**UNDERGRADUATE COURSES**

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| **Core Courses Core Courses** | | |
| Electrical Machines. | Analogue Electronics. | Microwave Engineering. |
| Electrical Power. | Signals. | Antenna Engineering. |
| Digital Electronics. | Instrumentation | Digital Signal Processing. |
| Micro-Processor Systems | State Space Design And Digital Control. | T.V Engineering. |
| Control Electronics | Electromagnetic Waves. | Communication Systems. |
| Electromagnetic Fields  Electrical Measurements. | Network Analysis And Synthesis.  Physical Electronics. | Circuit Theory. |
| **Other technical courses** | | |
| Pure Mathematics | Fluid Mechanics. | Computer Hardware And Software |
| Applied Mathematics | Thermodynamics. | Computer Programming |
| Engineering Mathematics | Mechanics Of Machines | Computer Systems Software |
| Solid Mechanics.  Engineering Drawing | Material Science.  Manufacturing Processes. |  |
| **Other courses** | | |
| Communication Skills | Operations Research | Physics. |
| Quantitative Skills | Engineering economics |  |
| Small business management. | Chemistry |  |
| **Projects** | | |
| Microwave transmitter design.  Liquid fuel purity sensor. | | |

**COMPUTER SKILLS**

*Operating Systems:* Windows 7, 95/98/NT/2000, XP, Vista, Linux, Mac OS (OS 8)

*Suites* **Ms-Office** (Word, Ms projects, Visio, Excel, PowerPoint, Access)

*Design software:* Autocad, Digsilent, PSS/E, Bentley substation, PLS CADD, Dialux Evo, Relux Autocad Microsoft visio, Microsoft projects.

Accomplished Internet user.

**REFEREES**

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| Joao Ramos  Civil Engineering lead,  AECOM Professional Services Kenya (Pty) Ltd.  P.O box 76485-00508,  **Nairobi**  [Joao.MachadoRamos@aecom.com](mailto:Joao.MachadoRamos@aecom.com)  Tel : + 254 709 668108 | Eng. Micheal Adhiambo.  Deputy Manager.  Kenya power and lighting  ESRP, Projects.  P.O. Box 30099-00100,  **Nairobi.**  Tel : (057) 2020536  Tel : (0321) 43291-8 | Eng.Antony Musyoka,  Project Manager  Ketraco  ESRP, Projects.  Kenya Electricity Transmission Company Limited  P. O. Box 34942 - 00100  NAIROBI, KENYA  Tel.0722-818865 |