**CURRICULUM VITAE**

**Personal information**

**NAME:** Eng. OJANGA MOSHE MITCHEL OKOTH. PE, MBA, MIEK

**DATE OF BIRTH:** 10TH NOVEMBER 1984

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## NATIONALITY: KENYAN

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**POSTAL ADDRESS:** P.O. Box 50395-00200 NAIROBI, KENYA.

**RELIGION:** Pentecostal Christian

**LANGUAGES:** English, Kiswahili.

**MARITAL STATUS:**  Married

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**PROFILE**

* Ability to look at situations from several points of view.
* Excellent interpersonal skills coupled with a collaborative management style with a healthy dose suspicion
* Able to develop components and products from concept to finished products, strong planning skills with the ability to conceptualize and analyze complex designs.
* Great understanding of the principles and practices of product and service quality assurance and quality control
* A conscientious team player with excellent trouble shooting and problem-solving skills
* Ability to mentor, train, coach and motivate individuals and groups to achieve optimum performance
* Strategic thinker with the ability to align organizations procedures and processes with the overall organizations vision and mission
* My principles are inclined towards integrity and excellence
* Ability to work at non-standard hours

**Objective**

* My desire is to realize my maximum potential in an exciting environment that demands strategic planning, innovative, analytical, management and leadership skills and to be successful in the field of Electrical, Electronic and Mechanical Engineering by ensuring seamless interaction of the human resource and Engineering practices thereby ensuring operations excellence.
* As an engineer, my desire is to be successful in the field of Engineering by ensuring synergistic interaction of Electrical, Mechanical and Electronic equipment thereby ensure meeting or exceeding of quotas and targets.

**PROFESSIONAL EXPERIENCE**

**EAST AFRICAN CABLES**

Electrical Engineer

***February 2016- Present***

At East African Cables I double up as the Projects Manager and Energy officer where my roles were:

* Plan, organize, co-ordinate and control machinery/equipment installations, machine servicing and repairs.
* Oversee preventive and periodic maintenance of plant and facilities
* Ensure training of machine operators and other affected staff on correct handling of machines (Autonomous Maintenance) in order to achieve high levels of efficiency
* Maintain records on machines and other maintenance applications within the company and monitor their performance
* Maintain records related to cost and items used in installations and services and ensure that these items are used efficiently.
* Installation and commissioning of newly acquired equipment.
* Refurbishing and upgrade of decommissioned equipment
* Oversee breakdown repairs of plant and other office facilities
* Coordinate trouble shooting for breakdown of machinery and equipment within the organization to ensure minimum down time
* Acquisition of spares and supervision of contractors
* Monitor water, pneumatic air and electricity consumption and ensure that power is consumed efficiently (power factor > 0.9)
* Advice the company on health and safety issues relating to the use of electricity and electrical appliances, water management and consumption of compressed air.
* Oversee the yearly review and implementation of the energy policy
* Introduce and maintain cost-effective ways of providing management information about energy and water consumption
* Reporting such information appropriately and regularly to the staff accountable for this consumption and to senior managers
* Introducing and maintaining efficient and environmentally benign policies and practices for the purchase and combustion of fuels
* Raise and maintain energy awareness throughout the organization through equipment energy audits and benchmarking
* Introduce and maintain effective 'good housekeeping' and plant operating practices (5 S) throughout the organization
* Identify East African Cables training needs for energy-related skills and understanding
* Identify cost-effective opportunities for increasing energy efficiency whether in new or existing equipment
* Formulate an investment program for reducing energy consumption and environmental pollution
* Introduce and maintain reviewing procedures for establishing the value for money of energy management activities, both to top management and other relevant staff.

Facilities/ Equipment under my Jurisdiction:

* 2 Plants, One at Kitui Road and another at Addis Ababa road Industrial Area
* 2 administration blocks and their auxiliary units
* 4 rod breakers with a total installed capacity of 75 Tonnes per day
* 3 intermediate wire drawing machines
* 2 Kilns
* 8 Rewinders
* 6 Extruders
* 12 Stranders
* 3 Auto coilers
* 4 Compressors
* 2 Chillers
* Air conditioners
* 2 Band saws and 2 circular saws
* Various workshop equipment’s

Staff:

* 3 Supervisors (Two electrical and one Projects)
* 8 Electricians
* 2 Machinists
* 2 Helpers

Projects carried out.

* Refurbishment of scrapped extruder and wire drawer installing and commissioning thereby boosting production capacity
* Installation and commissioning of a 61 Bobbin Rigid Strander
* Research, Design, Procure, Installation and commissioning of a 2500 A switchgear and capacitor bank
* Implementation of Total Productive Maintenance

**MUMIAS SUGAR COMPANY LIMITED**

Electrical Engineer Auxiliaries

***August 2015- January 2016***

My roles as the electrical engineer auxiliaries were;

* Oversee management of engineering operations at the electrical workshop, HVAC, company facilities and Instrument laboratory
* Budget allocation, planning, control and monitoring of both Capital and Operating expenditures
* Provide hands on leadership for all facility class instruments through proper calibration procedures and document traceability.
* Administration and employee welfare management for employees within the section including training and mentorship.
* Requisition and Inspection of maintenance spares. Manage engineering stocks min max levels
* Ensure timely maintenance, rewinding and service of motors, transformers and welding machines
* Service and maintenance of 3.3KV/415V distribution network
* Ensure efficient operation of at least 92% of the Air conditioners in the plant
* Maintain valid licenses for communication radios and timely service of radios to ensure efficient operations communication
* Ensure calibrated equipment document traceability and ensure master calibrators are set to national standards.
* Prepare annual, monthly and weekly calibration schedules to ensure that all plant instruments operate at optimum precision
* Manage employee over time and on-call registers
* Ensure that safe engineering practices are adhered to

Maintenance equipment/facility under my jurisdiction as the auxiliaries’ engineer is:

* 30 Bed capacity company hotel and guest house
* 1542 company houses
* 10,000 capacity stadium complexes
* One super market
* One outpatient medical facility
* One Administration block
* Three schools (Booker academy; infant, primary and secondary schools, Complex primary school, and central primary school)
* 257 Air conditioners ranging from 12,000 to 140,000 BTU
* An Instrument workshop with Pressure bench, Temperature bench, Radio bench, Electrical bench and a CV (control valve) Bench
* Assorted instruments (Control Valves, Motorized valves, Differential pressure transmitters, pressure transmitters, temperature transmitters, mobrey switches, speed/temperature/voltage/frequency indicators, tachometers, belt weighers)
* 3300/415 V power distribution network
* 25 step down transformers (3.3kv/415v)
* Satellite generators (Range 7 KVA to 450 KVA)
* An electrical workshop for servicing, repair and rewinding of motors, transformers and welding machines
* 92 communication radios

Staff:

* Three supervisors
* Three instruments technicians
* Five electrical technicians
* Four rewinders
* Four air conditioning technicians

Projects Carried Out.

* Upgrade of the Estates Distribution Network
* Change of street lighting cable from copper to aluminum to prevent vandalism
* Sinking of earth pits for lightening arresting and electrical Earthing

Electrical Engineer Power plants

***March2014 – July 2015***

Essential job functions as the power plants engineer:

* Providing assistance and direction to other plant personnel in proper plant procedures and production methods. Part of this routine involved providing guidance for preventative and breakdown maintenance to ensure that plant operations are able to meet output quotas and deadlines.
* Conduct operational tests to ensure that operational limits fall within the expected specifications. More so on the switch gears and Critical online equipment
* As a plant engineer, I also provide support to ensure that plant operations meet environmental and safety protocols in a cost-effective manner.
* Ensure that power is generated and distributed at the required parameters (volts/frequency/power factor)
* Ensure proper metering of power generated and distributed. Also, analysis of power consumption trends so as to justify any deviation from normal.
* Projecting plant maintenance schedules on yearly, monthly and daily basis based on equipment operation and use vis a vis wear and tear of both mechanical and electrical components
* Projecting plant maintenance costs based on equipment age, use/ware and tare, warrant, upgrade and recommended lifespan of the equipment
* Ensure plant maintenance costs are within projected budgetary allocations.
* Requisition of plant spares.
* Ensuring supplied spares meets the appropriate standards.
* Ensuring that the plant spares stocks are at the optimum levels that will ensure timely repair in case of a breakdown and that only essential stocks are maintained based on equipment breakdown history, vis a vis wear and tear vis equipment/product lifespan.
* Ensure rigorous inspections are carried out on a regular basis to ascertain the condition of plant equipment.
* Ensure condition monitoring is carried out to ensure that the rate of deterioration of equipment is within the manufacturers specifications.
* Ensure that the power and steam generation are within the hourly, daily, monthly and yearly allocated targets.
* Carry out training based on skills requirement of the energy plant staff and liase with the training manager where training cannot be done on-the-job or on site.
* Carrying out of safety audits and closing of Safety Action Plans.
* Liaise with the Mechanical and Civil Engineering teams during Designing, Planning and Installation and commissioning of new equipment/machinery.

Plant Equipment under my jurisdiction as the power plant engineer are:

* Boiler water feed pumps and motors
* 3 boilers, (i. 87 bar at 170 TPH at 5150 centigrade, ii. 22bar at 90TPH at 4300 centigrade and iii. 22 bars at 60 TPH)
* The Boiler water treatment plant
* Bagasse (Fuel) conveyor system including dynamic belt weighers
* Cooling tower
* Turbine alternators (34MW, 7MW and two 1.5MW)
* Pressure reducing and de-superheating station (PRDS;87 to 45 bar)
* De-ashing system and the electrostatic precipitator (ESP)
* Interbus/inter connecting transformers and distribution transformers ranging from 11KV, 3.3 KV and 415V
* Distributed Control System (DCS) and SCADA systems for monitoring and automating operations
* Pneumatic and motorized valves
* Uninterrupted power supply (UPS) systems for the DCS and SCADA
* Pneumatic air compressor systems
* Online transmitters and gauges
* Diesel Engine Generators (3.3 KV @ 1MW and 415V @ 0.8MW)
* Capacitor Banks for power factor correction

Staff

* Two general (Day) supervisors and four instrument technicians and four electricians
* Four shift supervisors (1 per shift) and six electrical and six instruments technicians
* Twenty-four shift operators (six per shift)

Projects carried out.

* Upgrade of Boiler 3B exhaust fan
* Installation of 5\*140,000 BTU Air conditioning system for the cogeneration plant switch gear
* Installation of 1.5 MVA Stand by generators in liaison with AGGREKO
* Maintenance overhaul of the 34.5 MW turbine alternator

Electrical Engineer Water Bottling Plant and Instrument Laboratory

***August 2012- March2014***

Essential job functions as the electrical engineer water bottling plant and instrument laboratory:

* Liaising with the contractor (Equitech) to during the design, planning, construction, installation and commissioning of the equipment at the water bottling plant.
* Supervision and monitoring of the Water Bottling Plant construction, Equipment Installation and commissioning and ensured that, the design and construction requirements are maintained.
* Coming up with maintenance strategies (Condition Monitoring) to ensure efficient operation of the equipment and ensure that they give optimum output within their life span.
* Monitor the consumption and utilization of Electricity, Water and Compressed Air within the plant.
* Researching, Designing, Planning, Installation and commissioning of projects
* At the instrument Laboratory I was responsible for coming up with a routine Calibration schedule for the various instruments within the factory and ensure optimum reliability and accuracy from the instruments.
* Ensure that all instruments within the field are tagged and document traceability maintained.
* Ensure that all master calibrating equipment is stamped by KEBS and are within their tolerance ranges.
* Ensure retrofitting of air conditioners from refrigeration gas R-22 to R 407A and R410A which are non-ozone depleting.
* Installation and maintenance of Heating, Ventilation and Cooling Systems and Management of Service providers’ contract.
* Coming up with instrument calibration operations and procedures and ensuring that they are adhered to through audits.
* Redesign of the MUMIAS SPRINKLES water bottle from the light blue bottle to the current clear bottle through the use of quality function deployment (QFD)

Plant equipment under my jurisdiction

* Blow molder
* High Pressure (HP) compressors
* Bottle rinser, filler capper and labeler
* Palletizing machine
* Electric fork lift
* Flow meters
* Chemical dosing machines
* Ozonation machine
* Chilling machines
* Rotary voltage stabilizer
* Fully equipped instrument workshop with pressure, temperature and Control valves benches.
* Air conditioners, ratings from 18,000 BTU to 140,000 BTU

Staff

* Two supervisors, four electricians and two instruments technicians

Projects carried out.

* Construction of the water bottling plant, installation and commissioning of production equipment
* Servo voltage regulator and power factor bank design, sizing, installation and commissioning.

Electrical and Instruments Superintendent at the Extraction plant

***November 2011- August 2012***

As a superintendent, I worked under an engineer at the extraction plant. Here I was responsible for:

* Ensuring that the weigh bridges operated within range
* Supervision of the construction and installation of Kisoko Cane buying center and was part of the design team for the Navakholo and Khasoko Cane buying Center
* Ensuring availability of the gantry cranes, feed tables, conveyor belts, the diffuser and the mills
* Ensuring accuracy of field instruments
* Ensure consistency of SCADA and field instruments
* Ensure proper operations of PLC’s
* Ensure accurate operation of steam turbine speed governors both electro-pneumatic and hydraulic governors.
* Ensure efficient and effective consumption of Steam, Electricity, Water and Pneumatic air during operations

Equipment under my jurisdiction

* Unmanned weighbridges
* The Diffuser
* Gantry cranes
* Cane belt weigher
* Slat conveyors
* Belt conveyors
* Dewatering Mills
* Feed tables
* Hydro-Unloaders
* Steam turbines
* Shredders
* Air conditioners of various capacities (16,000 BTU to 140,000 BTU)

Projects carried out.

* Reconfiguration of weighbridges A1 and A2 to accommodate shear type load cells from compression type load cells.
* Fabrication and Installation of a chute level controller at the dewatering Mills to prevent chocking of the system
* Modification of an 80 Tonne Gantry crane in order to replace a slip ring motor with a VSD coupled squirrel cage motor

Management trainee under Electrical and Instruments section

***November 2010 – November 2011***

Underwent training on numerous management skills and on-job-training on the various technical fields found in Mumias Sugar Company Limited.  
  
Management skills

* Financial and cost accounting
* Presentation skills.
* strategic planning
* Project management basics
* Marketing skills
* Risk management

Technical skills

* Boiler control and operations
* Power generation and distribution
* DCS (Distributed Control System), SCADA (System Control and Data Acquisition) and PLC (Programmable Logic Controller) automation systems
* Programming VSD’s (Variable speed drives) and ensuring optimum synchronization between the motor and the drives.
* Sugar production
* Condition based monitoring and maintenance
* water treatment
* Automated weigh bridge operations
* Use of SAP as an enterprise resource planner (ERP)
* Air conditioning and refrigeration systems

**DOSHI GROUP OF COMPANIES**

***July – August 2009***

At Doshi Group of Companies I was attached to Metsec where I dealt with production of P.V.C materials, cable manufacturing, Maintenance and repair of Production Equipment and Quality control.

**ST. AUSTIN’S SERVICE CENTER**

***May 2009 – June2009***

Here I worked as a general Mechanic. I dealt with the repair and maintenance of high-end motor vehicles with functionalities that enabled me to better understand the technical aspect of Mechatronic Engineering.

**TELKOM KENYA**

***May 2008– August 2008***

At Telkom Kenya I was attached to the Power Unit. Duties included Maintenance of D.E.G (Diesel Engine Generators), Preparing Electrical Bills, ensuring a seamless changeover of power from mains supply to D.E.G supply during power failures. Other duties included power factor correction using capacitor banks and maintenance of UPS (uninterrupted power supply) units.

**HUAWEI TECHNOLOGIES**

***May 2006 – August 2006***

Here I worked as an intern where I was attached to the Network Planning unit. Duties included testing the signal strength of Popote wireless and Telkom wireless, using the Pilot Panorama, around Nairobi area.

**ACADEMIC QUALIFICATIONS**

**January 2014 – June 2019**

**Master’s in business administration (MBA).** Strategic management option at the Jomo Kenyatta University of Agriculture and Technology.

**January 2012 – August 2013**

Post graduate Diploma in **Total Quality Management (TQM)** at the Kenya institute of management**. Awarded best student**: Year 2012-2013

**August 2010 – September 2010**

Certificate in **Programmable Logic Controllers (PLC)** from the Kenya polytechnic University College

**August 2005 – November 2010**

Bachelor of Science (Bsc.) Degree in **Mechatronic Engineering** at Jomo Kenyatta University of Agriculture and Technology and obtained a **Second-Class Honors.**

**January 2004 – August 2005**

Goethe institute. I studied German as a language

**January 2000 – November 2003**

**Kenya Certificate of Secondary Education (KCSE)** at Mang’u High School.

Here I studied Power Mechanics in high school as a foundation for my engineering career.

**ESSENTIAL JOB FUNCTIONS**

* Ensure safety standards are adhered to during maintenance and operations
* Ensure that minimum time is used in trouble shooting and maintenance of equipment
* Responsible for maximum availability and reliability of plant equipment.
* Supervise, train, mentor and coach staff.
* Project team management tasks, planning and execution of an engineering project more so in installation of new equipment. Designing manufacturing layouts, coordinating equipment selections, interacting with contractors, and evaluating quotes.
* Innovation to improve efficiency and optimization
* Auditing of operations to analyze gaps between the actual and the desired performance.
* Responsible for plant maintenance forecasting activities through FMEA and condition monitoring
* Researching, Designing, Planning, Implementation and Commissioning of Engineering Projects
* Programming of VFD drives to ensure proper synchronization between the VFD and the motors.
* Ability to read, understand and develop engineering documentation including: EFDs (Engineering flow diagrams), P&IDs (Process & Instrumentation Diagrams), Schematics, wiring diagrams, logic drawings, functional descriptions, etc.
* Ensure integrity of plant automation software i.e. SCADA and DCS
* Develop reliability engineering; observe safety precautions and enforcing all safety aspects and ensure that the plant runs at optimum levels.
* Ability to use design software. (AUTOCAD)
* Carry out training based on skills requirement of the energy plant staff and liaise with the training manager where training cannot be done on-the-job or on site.
* Monitor repair costs and frequency of repairs of individual equipment’s in order to warrant a redesign, scrapping or maintaining of the equipment
* Reduce downtime through efficient operations and effective maintenance of equipment
* Schedule preventive maintenance programmes for plant equipment.
* Application of Quality Program Strategies such as TQM (Total Quality Management) and TPM (Total Production Management)
* Maintenance of proper records; Equipment’s, job cards, maintenance/service records, calibration records
* Use of SAP as an ERP system
* Ensure continuous improvement through innovation of products and services and consistent monitoring and evaluation of the various processes and operations.
* Budgeting: both Capex and Opex
* Re-design and improve processes to increase plant production efficiency and output quality.
* Strategic planning and implementation through alignment of organizations policies, processes and procedures

**PROFESSIONAL mEMBERSHIP**

Member in good standing of:

* EBK (Engineers Board of Kenya) - Professional Engineer – A3399
* IEK (The Institution of Engineers of Kenya) - Corporate Member – M5607
* EPRA (Energy and Petroleum Regulatory Authority) – A1 Electrician – 005914
* AEPEA (Association of Energy Professionals Eastern Africa – A chapter of AEE)

**Community Service**

Volunteer nurse at New Life Children Home

**Interests**

Cycling, swimming, rugby (Vice-captain Mang’u High School 2003), community service and golfing

**Referees**

1. Kiplangat Chelule

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