

ENG.ERICK OHAGA



PO BOX 151 -40100 | KISUMU |
KENYA | ohaga20028@gmail.com | +254721897978

PERSONAL PROFILE

An energetic motivated and highly dynamic professional with excellent strategic, power system planning, design, construction, maintenance of distribution/trans and managerial skills and extensive experience in operations and maintenance of power lines.

An innovative and resourceful result oriented professional in nuclear, Electrical/Electronics, project management competencies and affiliated to international council of systems engineering

PROFESSIONAL EXPERIENCE

County Business Manager

September 2015 to Date

The county of Kisumu consists of Five branches; namely Muhoroni, Katito, Kisumu Central, Kisumu South, and Kisumu North. The total number of staff is currently 475. I lead seven functions, namely operations and maintenance; Energy Transmission; Design & Construction; Customer Service; Marketing & Customer Relations; Transport; and Supply Chains and Logistics.

Current Duties

- overseeing development, implementation and review of organizational strategic objectives
- Coordinating development, implementation of organizational strategic plans
- Coordinating Regional performance contracting process
- Leading County teams to provide clarity of vision, strategy, resource optimization and standards setting
- Developing Approving and implementing a County network expansion and maintenance plan in line with County and Company strategy and objectives
- Developing and implementing annual business plans for the County in line with the Company's strategy and objectives
- Monitoring implementation of network expansion and business plans in the County and initiating necessary interventions
- Developing County budget to support operational plans
- Managing projects implementation to improve reliability of supply in line with County plans
- Ensuring an effective customer relationship management processes and nurturing positive stakeholder relationships
- Maintaining a robust power network infrastructure and ensuring its optimal utilizations
- Implementing strategies to reduce technical and commercial losses in the power system network.
- Planning for resource requirements and optimization for the County

Performed Jobs

- Supervised Design, Construction of 20KM Dedicated Homeline 11KV line at cost of 45 Million.
- Supervised Design, Construction of Kisumu South 33/11 Substation at 520Million
- Supervised Design, Construction of Kombewa Switching Yard at a cost of 84Million
- Supervised Design, Construction of 35KM DedicatedMuhoroni-Ahero 33KV Line at cost of 52 Million.
- Supervised commissioning of New Primary 33/11Substations of Ahero, Maseno and Kibos at cost of 1.5 billion.
- Supervised Design, of 10no new Outgoing 11Kv feeders from Maseno, kibos and Ahero 33/11 substations at cost of 130 million.
- Supervised Design, refurbishment of problematic Bondo, Chemelil and Katito 33 KV Lines at cost of 120 Million
- Supervised Design, rconstruction and maintenance of Abbysinia-Chemelil 33 KV 4KM Interconnector at cost of 15 Million
- Supervised commissioning of dedicated Steel Mill 33 KV line at cost of 40 Million
- Connected 51,000 new customers to the electrical grid in 2017-2018 at 1.5 Billion.
- Supervised design, construction of street lighting projects in Kisumu at a cost of 800 million.

Power System Planning Engineer

May 2014 to September 2015

- Developed Kenya's 2015-2020 Distribution Master Plan.
- Developed County by County system Loss Contribution for Coast region.
- Participated in the Standardization of Feed in Tariff (FiT) Power Purchase Agreements.
- Participated in the negotiation and completion of 15 new Power Purchase Agreements.
- Developing plans for power system expansion and modernization to meet network requirements.
- Developing Least Cost Power Development Plan (LCPDP) Transmission and generation 2013-2033
- Recommending power system improvements through system and Loss reduction studies.
- Recommending power system improvements through system and Loss reduction studies.
- Recommending power system improvements through system and Loss reduction studies.

Maintenance Engineer

Feb 2014 to May 2014

In charge of maintenance of power network for the Coast Region. Responsible for managing and motivating a team of 12 engineers, 17 technicians and 28 foremen to achieve the regional strategic goal.

- Championed Imarisha Umeme Pwani Project aimed at reinforcing the distribution network at a cost of 183 Million within one month.

Operations and Maintenance Engineer

(2007 to May 2012)

KENYA POWER, MOMBASA/COAST/KENYA

In charge of maintenance of power network for the Coast Region. Responsible for managing and motivating a team of engineers, technicians and foremen to achieve the regional strategic goal.

- Implemented Automation of secondary distribution Within Mombasa and its Environments worth 300Million
- Facilitated the Upgrade of 17 primary substations within Coast Region at cost of 2 Billion under ESRP
- Uprated the sub-marine cable connecting the Island and South Coast.
- Implemented system reinforcement project worth 200 Million to improve power quality
- Reduced Medium voltage interruptions from 200 to 70 Monthly
- Reduced transformer failures from 40 to 4 monthly
- Reduced Customer Average Interruption Duration from 8hrs to 1.3hrs
- Scored Very Good in Performance appraisal
- Achieved and awarded authorization classes 3, 4, 5, 6, 7, 8, 9, 10, 12,13, 14

Common Services Engineer

(August 2006 to June 2007)

KENYA POWER, MOMBASA/COAST/KENYA

In charge operations section overseeing emergency, breakdown, cable jointing teams to ensure restoration of power within the required time

- Scored excellent in performance appraisal
- Reduced CAIDI from 6hrs to 3hrs.
- Managed a recurrent budget of 110 Million
- Coached and mentored 20 staff for system authorization

Design and Construction Engineer

(Mar 2006 to Aug. 2006)

KENYA POWER, MOMBASA/COAST/KENYA

Supervised the business development, design and construction of Medium/Low Voltage lines within Coast Region.

- Scored excellent in performance appraisal
- Approval of ADMD for new connections
- Designed supply to 100 units in North Coast
- Designed supply to 70 units in Likoni Tower
- Obtained Authorization classes 15,16,17

Apprentice Engineer

(Mar 2005 to Feb. 2006)

KENYA POWER, NAIROBI/KENYA

Attended one year apprentice training within the core business units to acquire holistic experience.

- Completed 2 months training program in Distribution Division
- Completed 2 months training program in Transmission Division
- Completed 2 months training program in IT&TE Division
- Completed 2 months training program in Customer Service Division
- Completed 2 months training program in Research & Development Division
- Completed 1 months training program in Projects Division
- Completed 1 months training program in Control Centre Division

Power Electronics Engineer

(Aug. 2004 to Mar. 2005)

VECTOR INTERNATIONAL , NAIROBI/KENYA

Vector International is a company that designs, installs and maintains UPS, Rectifiers, Power back up systems

Managed a team of Ten technicians in timely installation and repair of Power back up systems throughout Kenya and East Africa

- Designed 50 new power back up installations
- Carried out monthly maintenance services to installation
- Achieved maintenance targets at 100%
- Achieved a response time of 4 hrs within Nairobi
- Coached and mentored 3 technicians on Power Electronics Diagnostics and interpersonal skills

Solar Engineer

(Apr 2004 to Aug 2004)

XIN LONG, NAIROBI/KENYA

XIN LONG is company that designs, installs and maintains solar systems for Lighting, heating and information technology

Responsible for the design and installation of solar system in customers' premises

- Designed and installed solar water heating system for Daystar University
- Designed and installed solar water heating system for Jomo Kenyatta University
- Designed and installed solar swimming pool heating system for St. Hannah School system

EDUCATION

Masters of Science in Nuclear Power Plant Engineering

2014

KINGS , BUSAN/ULSAN/REPUBLIC OF SOUTH KOREA

Executive Masters of Business Administration	2009
Jomo Kenyatta University , Nairobi/KENYA	
Post Graduate Diploma in Project Management	2006
Kenya Institute of Management , Nairobi/KENYA	
Bsc. Electrical/Electronics Engineering	2004
Jomo Kenyatta University , Nairobi/KENYA	
Kenya Certificate of Secondary Education	1997
Kakamega High Sch , Kakamega/Kenya	
Kenya Certificate of Primary Education	1993
St. Joseph Ugana , Mumias/Kakamega	

COMPUTER COMPETENCE

Have knowledge of the following computer applications and software codes

- WASP IV
- VARALOGUA
- PSS/ADEPT
- DIGSILENT
- DCS (Design Construction System)
- DTMMMS(Distribution & Transmission Material Management System)
- IMS(Incident Management System)

- FDB(Facility Database)
- SAP
- DOORS (Dynamic Object Oriented Requirements System)
- Sysml (System Modeling)
- Octave (Solving statistical problems)
- Sim 7 (Electrical circuit analysis)
- Matlab(Solving Ordinary Differential Equations & PDEs)
- Sketch up 8 (Sketching structures in three dimensions)
- DropBox (Communication & data sharing tool)
- MicroSoft Project (Scheduling projects)
- Smart Sheet (Project Planning)
- MicroSoft Word(Manipulation of word documents)
- MicroSoft Excel(Manipulation of data)
- MicroSoft Visio (Network, Flowcharts, Business, Engineering)
- E-Draw Max (Business Diagrams, Engineering Diagrams, Floor Plans, Organization Charts)
- MicroSoft PowerPoint(Presentation Templates)
- Team Viewer 8 (Communication between two or more computers)
- Prezi Presentation(Cloud based presentation software)
- PCTran (NPP analyzer)
- WBS Chart Pro(Project Work breakdown structure)
- PDF Split & Merger 1.2(Splitting and joining PDF Files)
- Crystal Ball (Solving Optimization Equations)
- Enterprise Architect (USE CASE & Sequence Diagrams)
- Fortran(Coding tool)

- PSSE (Power System Simulator for Engineering-Electrical Grid analysis)
 - PSS-SINCAL (Distribution Planning)
 - NEPLAN (Distribution Planning)
 - RET SCREEN (Solar Planning tool)
 - IDEFO (Integrated Definition Function)
 - LinkedIn(Networking)
 - QFD (Quality Function Deployment)
-

CONTRIBUTION TO NUCLEAR ENERGY INFRASTRUCTURE DEV IN KENYA

- A member of the Electrical Grid Study Technical Working Committee.
- A member of the Nuclear Energy Policy Formulation Committee.
- A member of the Nuclear Energy Regulatory Framework formulation Committee.
- A member of the Nuclear Safety Conventions Committee
- Participated in INIR Missions conducted by IAEA to evaluate Kenyas Preparedness to Introduce NPP

MEMBERSHIPS AND AFFILIATIONS

- Institution of Engineers (IEK) Council Member 2018/2020
- Associate Member of Chartered Institute of Arbitration (UK)

- Western Branch Vice- Chairman Chapter of IEK| 2018/2020
- Secretary to Member of Young Engineers Chapter of IEK| 2015
- Student Member|International Council of Systems Engineers (INCOSE) | 2013
- Student Member|Korean Society of Systems Engineers | 2013
- Student Member|Korean Nuclear Society | 2013
- Registered Professional Engineer| Kenya Engineers Registration Board(A2649) | 2011
- Registered Professional Electrician Class A1| Energy Regulation Commission(A1004387) | 2014
- Full Member| Institute of Engineers of Kenya | 2011
- Full Member| Kenya Institute of Management (KIM) | 2008
- Kenyan Delagate| KEPCO International Nuclear Graduate School (KINGS) Alumni Association| 2014

-
-
- Trained on Regulatory affairs of Nuclear Power Plants|USA|TEXAS_A&M| 2014
 - Trained on Regional Grid Studies on Integration of Nuclear Power Plants|ALGERIA| 2016
 - Trained onNorthern Africa Regional Generation and Integration of Nuclear Power Plants|ALGERIA| 2016
 - Trained on Nuclear Electrical Grid Intergration|BEIJING_CHINA| 2016.

- Trained on 7 Effective Habits of Effective Leadership|Nairobi|2017
- Lead Auditor| Environment Management Systems (EMS) | Beaureu Veritus |2010
- Lead Auditor| Quality Management Systems (QMS) | Beaureu Veritus |2011
- Lead Auditor| Occupational Safety and Health (OSHA) | Beaureu Veritas |2010
- Champion| ISO 9001: 2008 | Kenya Power|Nairobi|2010
- Trained on cable Fault Location & Partial Discharge Diagnostics|SebaKMT_Germany|2009
- Trained on Project Management Tools|Kenya Power|Nairobi |2007
- Trained on Safety Awareness Practices|Kenya Power|Mombasa|2007
- Trained on Management skills|Kenya Power|Nairobi|2009
- Trained on Supervisory skills Development|Kenya Power|Nairobi|2007
- Trained on 11Kv Autochangeovers|Brisbane_Australlia|2010
- Trained on Mentoring and Coaching|Kenya Power|Nairobi |2011
- Chairman Health & Safety Committee|Mbaraki|2009
- Trained on Health and Safety Committee Workshop|Kenya Power|Mombasa |2010
- Trained on Fire Fighting Equipment & Safety

TECHNICAL CONFERENCES PAPER SUBMISSIONS

- Industry-Academia Model For Sustainable Engineering Education | Nelson Mandela Inst | Arusha | Sept | 2018
- Industry-Academia Model For Sustainable Engineering Education | KICD | Royal Academy of Engineering Annual Workshop | May | 2018
- Dandora Waste To Energy Power Plant | Kigali Convention Centre | Africa Eng Week | 2017
- Transient Stability On the Proposed 100MW Wind Farm at Kipeto_Isinya | Nairobi | IEK Annual Conference | 2017
- County by County system Loss Reduction for Coast Region | Leisure Lodge | IEK CONFERENCE | | South Coast, Kwale | 2016
- Partial Discharge Diagnostics | IEK CONFERENCE | | Continental Hotel | Nairobi | 2015.
- Human Resources Development Strategy to Support the introduction of Nuclear Power Plant (NPP) Program in Kenya | Novotel | South Korea | 2014
- Systems Engineering approach to RCM on Containment Spray Pump | KOSSE Journal | 2013 | South Korea
- Scoping & Selection of Safety SSCs for a containment spray system | KNS | Gyeongju | 2013 | South Korea
- Functional Requirements Analysis & Functional Allocation for APR 1400 | KNS | Gyeongju | 2013 | South

Korea

- Selection of Architect Engineering Concept for Barge Mounted SMR Using Systems Engineering Approach | KOSSE | KINGS | 2013 | South Korea
- Licensing Method for New NPP | KOSSE | ChangWon University | 2012 | South Korea
- SMR Powering the Counties | Kenya Power Conference | Kenya | VOI | 2012 | Kenya
- Partial Discharge of UG cables | Kenya Power Conference | 2011 | Mombasa | Kenya
- Automation of Mombasa Island & Its Environs | Kenya Power Conference | 2011 | Mombasa | Kenya
- Distribution TX Failure Reduction | Kenya Power Conference | 2010 | Mombasa | Kenya

REGIONAL/NATIONAL TECHNICALWORKING GROUP MEMBERSHIP

- Member of Kenya Nuclear Electrical Grid Study Team | Kenya Nuclear Electricity Board | 2014~2016
- Member of Integrated Nuclear Infrastructure Review (INIR) Team
- Member of South Africa Power Pool Intergration Technical Working Group | ZTK | | MOEP
- Member of Kenya Nuclear Regulation Bill Formulation 2015 | MOEP |
- Member of Kenya Convention on Nuclear Safety Treaty 2015 | MOEP

- Member of Kenya Convention on Nuclear Energy Policy Formulation Committee | 2016

PROFESSIONAL COACHING/ MENTORSHIP PROGRAM

- Coached and mentored 8no Graduate Engineers into Professional Engineers between 2014-2018
- Currently coaching 15 graduate Engineers to become Professional Engineers.

OTHER SKILLS

- Participated in Factory Acceptance Tests for low voltage cables | Cairo_Egypt | 2009
- Participated in Factory Acceptance Tests for 11Kv Autochangeovers | Brisbane_Australia | 2010
- Participated in Factory Acceptance Tests for 11/33kv automation switchgears | Dubai_UAE | 2011
- Attended Energy Conference | Durban_South Africa | 2010
- Holds a valid Driving Licence BCE
- Has knowledge on the tendering process

RESPONSIBILITIES HELD

- Chairman Board of Management; St. Joseph Ugana

Secondary School | 2016

- Kenyan Representative KINGS Alumni | 2014
- Secretary Society of Systems Engineering_KINGS Chapte | South Korea | 2013
- Class Preseident Executive Masters of Business Adminstration class | Mombasa | 2009
- Chairman Safety and Health Committee | Kenya Power~ Mbaraki | 2009-2012
- Member System Competence and authorization Panel | Kenya Power | 2010
- Faculty of Engineering Representative | JKUAT | 2003
- Deputy Head Student | Kakamega High School | 1997
- Head Student | St. Joseph Ugana Primary School | 1993

HOBBIES

- Soccer | Relays | Badminton | Hiking | Marathon

REFEREES

1. Eng. Dr. Peter Kimemia

Manager, Standards

Kenya Power

P.O.BOX 30099-0100

Nairobi

2. Davies Nyamache

Director, Timmus

P.O.BOX 41560-00100

Nairobi

3. Prof.Lee, Yong-Kwan

Dean of Student Affairs

Kepco International Nuclear Graduate School (**KINGS**)

14561-1, Shinam-ri, Seosaeng-myeon, Ulju-gun, Ulsan,
689-882, Korea