

MATSANZA EDWIN KATAKA

Personal details

Date of birth 1972
Nationality Kenyan
Mobile +254 746 329 084

Education

[JAN 2016 - APR 2018] UNIVERSITY OF KWAZULU NATAL (SOUTH AFRICA)

MASTER OF SCIENCE IN ENGINEERING (ELECTRONIC ENGINEERING)

[AUG 2007 – DEC 2010] MOI UNIVERSITY (KENYA)

BACHELOR OF TECHNOLOGY ELECTRICAL AND COMMUNICATION ENGINEERING

- SECOND CLASS HONOURS UPPER DIVISION

[MAY 2003 – JULY 2004] KENYA TEACHERS TRAINING COLLEGE (KTTC)

DIPLOMA IN TECHNICAL EDUCATION ELECTRICAL ENGINEERING (school based programme)

- SECOND CLASS DIPOLMA

[JAN 1999 –DEC 2000] KENYA TEACHERS TRAINING COLLEGE (KTTC)

HIGHER NATIONAL DIPLOMA ELECTRICAL ENGINEERING

- KNEC (PASS)

[JAN1994 – APRIL 1997] JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY (KENYA)

DIPLOMA IN ELECTRICAL ENGINEERING (ELECTRONICS OPTION)

- CREDIT PASS

[JAN1989 – NOV 1992] KIBABII SECONDARY SCHOOL (KENYA)

KENYA CERTIFICATE OF SECONDARY EDUCATION (KCSE)

- MEAN GRADE C+ (PLUS)

Professional
experience

[JAN1982 – NOV 1988] KABULA PRIMARY SCHOOL (KENYA)

KENYA CERTIFICATE OF PRIMARY EDUCATION (KCPE)

- 72 POINTS OUT OF 84 POSSIBLE POINTS

[AUG 1997 – APRIL 2000] JAAPFAST BUILDING AND
CONSTRUCTION ENGINEERING

- **ASSISTANT ELECTRICAL ENGINEER 1 (DESIGN)**

Duties and responsibilities

Design of electrical layouts
Electrical installation works
Electrical installation fault testing
Maintenance of installation systems

[MAY 2001- JULY 2005] JAAPFAST BUILDING AND
CONSTRUCTION ENGINEERING

- **ELECTRICAL ENGINEER 2 (DESIGN)**

Duties and responsibilities

Design of electrical layout
Load and demand analysis
Cables and protection devices design
Supervision of site works

[AUG 2005 – NOV 2012] MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY

Department of electrical and communications engineering

- **TECHNICAL STAFF**

Design of lab manuals
Coordinate students projects design and implementation
Maintenance of laboratory machinery
Carry out installation works as part of students projects
Keep up to date inventory

[NOV 2011- MAY 2012]: MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY

Department of electrical and communication engineering

- **SENIOR TECHNOLOGIST**

Supervise over other technicians

Conduct scientific research
Coordinate the implementation of students projects
Procurement of workshop materials
Organize and conduct workshop practice

[JULY 2012 – JAN 2013]: KIBABII UNIVERSITY
(CONSTITUENT COLLEGE OF MASINDE MULIRO
UNIVERSITY OF SCIENCE AND TECHNOLOGY

▪ **ASSISTANT MAINTENACE OFFICER**

In charge of maintenance and repair of electrical, mechanical, civil and structural works at the university college.

- Electrical works
- Plumbing works
- Sewerage and drainage works
- Building works
- Welding works
- Ground works
- Carpentry works

**[FEB 2013 TO DATE]: KIBABII UNIVERSITY (CONSTITUENT
COLLEGE OF MASINDE MULIRO UNIVERSITY OF SCIENCE
AND TECHNOLOGY**

Department of physics

▪ **PRINCIPAL TECHNOLOGIST**

Designing of experiments
Preparation and testing of experiments
Supervise students on experiments
Conduct scientific research with post graduate students
Coordinate the implementation of students projects
Procurement of workshop materials
Organize and conduct workshop practice

Additional
professional
activities

[MAY 2010 TO 2016]: JAAPFAST BUILDING AND
CONSTRUCTION ENGINEERING

▪ **CONSULTANCY SERVICES (PART TIME)
(DESIGN ENGINEER)**

All electrical design works
Preparations of bill of quantities
Preparations of Project proposals
Site works evaluation and electrical tests

- CHAIRMAN OF TREE PLANTING COMMITTEE
- PURCHASE OF LAND NEGOTIATION (MEMBER)

- TENDER EVALATION COMMITTEE(MEMBER)
- QUALITY ASSURANCE COMMITTEE (MEMBER)

Professional
Memberships

GRADUATE ENGINEER ENGINEERS BOARD OF KENYA-EBK
(**Registration number B6625**)

Publications

Nov -28th , 2017 published journal paper in **South African Institute of Electrical Engineers (SAIEE)** titled “ **Energy Efficient Statistical Cooperative Spectrum Sensing in Cognitive Radio Networks**”

Oct, 2017 submitted a journal paper titled in **International Journal for future generations (IJFGCN)** “**Optimal Energy Based Cooperative Spectrum Sensing Schemes in Cognitive Radio Networks**”

Status the paper is still under review

28th Nov 2016 published conference paper 3rd IEEE International Conference on Advances in Computing and Communication Engineering (Nov 28th, 2016) titled “**Optimal Fusion Techniques for Cooperative Spectrum Sensing in Cognitive Radio Networks**”

Workshops

Participated in curriculum review workshop for electrical engineering department .venue :Bishop Nicolas Stam Kakamega

Seminars

Sponsor Masinde Muliro University of Science and Technology (MMUST)

8th - 9th February 2006 a academic advisers workshop venue Bishop Stam Kakamega

Sponsor Masinde Muliro University of Science and Technology (MMUST)

18th October 2009 African university day venue Sheywe guest house Kakamega

Sponsor Masinde Muliro University of Science and Technology (MMUST)

12th June 2010 Role of the Kenyan engineer in the vision 2030 .Venue MCU

Presenter ERB and IEK

Sponsor Masinde Muliro University MMUST

May – July 2009 Attachment Nzoia Sugar Company

12th October 2011 ISO certification seminar 2000 Venue Masinde Muliro

University Science and Technology

Sponsor Masinde Muliro University MMUST

4th June 2012 staff seminar on information for quality service and customer satisfaction

Sponsor kibabii university college KIBUCO

19th October 2012 fire drill seminar Bungoma Campus fire a awareness first aid and terrorism

Sponsor: Kibabii University College

29th April -3rd May 2013 attended a Seminar at Kisumu polytechnic on E-Promis (Electronic project Monitoring Information Systems) sponsor GOK

14th May 2013 workshop on gender mainstreaming, alcohol drug abuse and disability mainstreaming

Sponsor Kibabii University College (KIBUCO)

21st June 2013 risk management held at Kabula pastoral centre

- Strategic risk assessment
- Risk monitoring and review
- Risk management roles and responsibilities
- IRM in relation to university management policy

Sponsor KIBUCO

9th December 2013 co-presented a project proposal with Prof . Yudah Ayodo at Utalii College to National Commission for Science Technology and Innovation (NACOSTI)

Project title: **Micro-Controlled Solar Device for Lighting and Powering Laptops for pupils in off grid Rural households**

Awarded ksh 650,000 for the project.

Additional skills

COMPUTER KNOWLEDGE

MS Office XP e.g. MS word , MS Excel ,Power point, Spread Sheets

Auto CAD , MATLAB ,JAVA and C++ ,SPSS, MATLAB, LATEX

Languages

English and Swahili

Community

Voter Education and Poverty Eradication in the Local community Kabula

Bungoma County

activities

References

PROF. Eng. SITATI SIMIYU

Dean School of Engineering, and Senior Lecturer faculty of electrical and communications Engineering (MOI UNIVERSITY)

PO BOX 3900-30100 Eldoret ,Kenya)

Mob 0722 234 627

DR. LUCY CHIKAMAI

Dean faculty of science, Kibabii University

P.O. Box 1699 -50200

Mob 0722 763 440

DR. JOHN MAKOKHA

Head of department Science, Technology and Engineering Kibabii University (STE)

P.O. Box 1699 -50200

Mob 0721 825 520

Objective

To work in an institution that specializes in research and mobilizing of expertise in the field of engineering in order to develop and acquire new skills & responsibilities with the aim of better understanding of and providing solutions to the problems encountered in engineering sector

Hobbies

Reading ,watching soccer walking, browsing the internet, research etc

Volunteer

Mentoring young scholars, education young Kenyans on career choice, teaching some local high Schools in Bungoma County