

Eng. Martin Mutuku Nzomo, FIEK



Position: Ag. Dean - School of Engineering and Technology,
Kenyatta University.

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1. Education:

1999 –2000: Master of Education in Vocational and Technical Education, University of Illinois at Urbana-Champaign, USA (August 2002)

Courses studied for MEd:

- Entrepreneurship
- Small Enterprise Policy
- Issues in Development Education/Training
- Strategic Planning
- Management Consulting
- Adult Learning and Development
- Disciplined Inquiry (Research Methodology)
- Evaluation of Education Training Programmes
- Research dissertation on technology aspects of the micro and small enterprise sector in Kenya

1982 – 1983: Master of Science in Digital Systems, School of Electronic System Design (SESD), Cranfield Institute of Technology in England, UK (June 1984).

Courses taught, studied and examined for MSc:

General Modules:

- Electronics
- Control
- Computers
- Project Engineering

Specialist Modules

- Signal Processing
- Electronic Engineering
- Microprocessor Engineering
- Logic Design

Thesis: Research Thesis entitled ‘A Simulator for Digital Systems’.

1976 – 1979: Bachelor of Science (Upper 2nd Class) Honours, in Electrical Engineering, University of Nairobi (December 1979).

1974 – 1975: East African Advanced Certificate of Education; 3 Principals.

1970 – 1973: East African Certificate of Education; Division 1, 9 Points.

1963 – 1969: Certificate of Primary Education.

2 Professional qualifications:

- Professional Engineer, No. A1215 by the Engineers’ Board of Kenya since 1986.
- Holder of current Engineer’s Practicing Licence.
- Certified in Strategic Leadership by the Kenya Institute of Administration (KIA) under the Strategic Leadership Development Programme (SLDP) No. 34 of 2011.
- Certified in Lean Management for Management Consultants by Japan Productivity Centre
- Certified as an Advanced Productivity Practitioner by the Asian Productivity Organization in 2008.
- Certified as a Productivity Service Provider by the Productivity Centre of Kenya in 2007.
- Certified in Productivity Promotion and Facilitation by the Japan

Productivity Centre in 2007.

- Certified in Exchange of experiences between Africa and Latin America and the Caribbean in the Execution of Support Programs for Small and Medium Enterprises by SELA and CONUPIA in 2002.
- Certified in Competition Law and Policy for East and Southern Africa by UNCTAD and Ministry of Finance and Planning in 2001.
- Certified in the Promotion of Small and Medium Enterprises by the Korean Small and Medium Industry Promotion Corporation and Korea International Cooperation Agency (KOICA) in 1999.
- Certified in Performance Management and Target Setting by DPM Civil Service Reform Secretariat in 1997.
- Certified in Technology Management for Enterprises by United Nations Industrial Development Organisation (UNIDO) and KAM in 1995.
- Certified in Industrial Technology Development by United Nations Industrial Development Organisation (UNIDO) and KIRDI in 1995.
- Certified in Technology Transfer Negotiations and Contracting by United Nations Industrial Development Organisation (UNIDO), ARCT and NOTAP in 1991.
- Certified in Welding Repair and Maintenance by Fontargen Welding Alloys Ltd, in 1987.
- Certified in Industrial Projects Preparation and Evaluation by UNIDO in 1981.
- Certified in Corporate Industrial Management by ESAMI in 1981.
- Certified in Preventive Maintenance by Swedish Training Centre ALIRATI and the Kenya Bureau of Standards in 1980.

3 Membership to National and International Professional bodies:

- Fellow of the Institution of Engineers' of Kenya (FIEK) No F706; 1997.
- Corporate Member of the Architectural Association of Kenya (Engineers' Chapter), MAAK (E) No. 1870 since 1996.
- Full Member of the Kenya Institute of Management (MKIM) No. 03459; 1992.

4. Summary of Competencies, Expertise and Skills

- Excellent policy and programme development, implementation and programming skills.
- Excellent industrial and MSE business development skills.
- Excellent productivity development, improvement and management skills.
- Diverse technical, project and programme management and evaluation skills.
- Strategic planning and entrepreneurship development skills.
- Excellent stakeholder-capacity building and coordination skills.
- Excellent negotiation and resource mobilization skills.
- Excellent organizational, communication and presentation skills.
- Dynamic personality with excellent organizational and leadership abilities.
- Team leadership with excellent and diplomatic ability to manage internal and external conflicts.

5. Current Academic Work:

Taught units to 1st, 2nd, 3rd, 4th and 5th year engineering students:-

- i. ECU 108 – Introduction to the Engineering Profession.
- ii. SET 209 - Electrical Engineering I.
- iii. SET 215 - Electrical Engineering II.
- iv. ECV 211 – Electrical Engineering.
- v. SCE 214 - Circuit Theory II.
- vi. SET 300 - Engineering Electronics.
- vii. SCE 321 - Network Analysis and Synthesis.
- viii. SCE 322 – Transmission Lines and Waveguides
- ix. SET 332 - Electrical Power Applications.
- x. SET 400 - Electrical Technology.
- xi. SET 410 - System and Control Engineering.
- xii. SCE 430 - Communication Systems.
- xiii. SCE 425 – Signals.
- xiv. EEE 402 – Complex Analysis for Electrical Engineers
- xv. EEE 410 – Signals and Systems.
- xvi. SCE 509 - Engineering Project Supervision.
- xvii. ECU 500 – Professional Practice and Ethics.

6. University Responsibilities

- a. Acting Dean, School of Engineering and Technology, from 27th February, 2013 to Date.
- b. Member, Kenyatta University Research Review and Advisory Board (URRAB).
- c. Member of the University Team to the Award of Charter to Kenyatta University by H.E. the President at the Kenyatta International Conference Centre (KICC) on Friday 1st March, 2013.
- d. Stand-in Dean, School of Engineering and Technology from 14th September, 2012 – 15th October, 2012.
- e. Chairman, Department of Electrical & Electronics Engineering 10th January, 2013 to 26 February, 2013.
- f. Two time stand-in Chairman, Department of Electrical & Electronics Engineering, during the periods:-
 - i. 2nd – 5th April 2012
 - ii. 18th – 30th July 2012
- g. Member, Kenyatta University Biomedical Engineering Curriculum Development Committee.
- h. Member, Kenyatta University Petroleum Engineering Curriculum Development Committee.
- i. Member, Kenyatta University Energy Engineering Curriculum Review Committee.
- j. Patron of the Kenyatta University Electrical & Electronics Engineering students club
- k. Member of the Kenya's delegation to the Kenya-Spain Academic Congress to Madrid, Spain 21st – 28th November 2012.

7. Articles and Publications

- a. Article on Transformer Security System, Journal of the Institution of Engineers of Kenya Volume 33 No.5 November/December 2012, pages 58 and 59.
- b. Article on Article Computerized water proof – level monitoring system, Journal of the Institution of Engineers of Kenya Volume 34 No.1 January / February 2013, pages 46 and 47.
- c. Article on the Development of Engineering Training at Kenyatta University in 40 Years of Progress in Kenya, pages 122 and 123; published by Intercontinental Publishers Ltd.

8. Workshops and Conferences

- a. Participated in the Biosafety Sensitization Workshop organized by the Kenyatta University Biosafety Committee (KUIBC) held at KUCC on 22nd August, 2012.
- b. Participated in the 2012 Biomedical Engineering (BME) Innovators Summer School in Kampala organized under the auspices of the Uganda Industrial Research Institute (UIRI), Kyambogo University and Makerere University in collaboration with UNECA and its partners in August 2012.
- c. Participated in the stakeholders consultative meeting held at the Ministry of Higher Education, Science and Technology on 19th July 2012 on the support to enhance quality and relevance in higher education, science and technology
- d. Facilitated the programme of the official commissioning of equipment for the School of Engineering & Technology as the master of ceremony on Wednesday 31st October 2012 held at the Kenyatta University Engineering Building
- e. Presented the Kenyatta University Biomedical Engineering curriculum during the Stakeholders Workshop on Biomedical and Petroleum Engineering Programmes held at the Kenyatta University Conference Centre (KUCC) on 18th January, 2013.
- f. Coordinated the Africa-wide Biomedical Engineering Consultative Meeting which was hosted by Kenyatta University at the Kenyatta University Conference Centre (KUCC) on 4th – 5th December, 2012.
- g. Participated in the Kenya-Spain Academic Congress on expanding Science and Technology frontiers for quality education, training and research for sustainable development held in Madrid, Spain 21st – 28th November 2012.

9. National and Community Responsibilities

- a. Board of Governors Membership at Embakasi Garrison Secondary School w.e.f. 15th July, 2010
- b. Member of the Electrical Campus & Wiring Accessories Technical Committee of the Kenya Bureau of Standards (KEBS) w.e.f. 17th October, 2012.

- c. Secretary to the Parish Pastoral Council of St. Catherine of Alexandria Parish Nairobi South C.

6. Work Experience:

Thirty two years professional experience in the Kenya Public Service and held various positions including Assistant Engineer, Engineer, Senior Industrial Development Officer, Assistant Director of Industries, Senior Assistant Director of Industries, Principal-Kenya Industrial Training Institute, Deputy Director of Industries, Senior Deputy Director of Industries, and Deputy Director of Productivity.

Developed hands-on experience in:-

- i. Development, Appraisal and Evaluation of industrial projects with special focus on the electronic, engineering and agro-based industries;
- ii. Investment Programme Development and Execution including its Coordination;
- iii. Human Resource Development particularly focused on Vocational and Technical Education;
- iv. Informal, Micro and Small Enterprise Development specializing on technology development and /or acquisition;
- v. Capacity building of industrial entrepreneurs and MSME sector operators;
- vi. Market development for MSME products; and
- vii. Productivity and Competitiveness Improvement.

7. Additional responsibilities:

- 2nd Vice President, Pan-African Productivity Association (PAPA) Based in Pretoria, South Africa from 2009 to 2011.
- Board Member for Kenya, Pan-African Productivity Association (PAPA) Based in Pretoria, South Africa since 2002.
- Chairman of the Board of Directors of the Common Market of the East and Southern Africa (COMESA) - Leather & Leather Products Institute (COMESA/LLPI) which is based in Addis Ababa, Ethiopia from 1997 to 2007.
- Chairman, East Africa Community Task Force for the Jua Kali/Nguvu Kazi (SMEs) Exhibitions for 2000, 2001 and 2002.

- Coordination of the Africa Government Members' Group Position in the ILO Committee on the Informal Economy during the 90th Session of the International Labour Conference held in Geneva, Switzerland in June 2002.
- African Continent Member of the Drafting Committee of Report Number 25 of the ILO Committee on the Informal Economy, during the 90th Session of the International Labour Conference held in June 2002.
- National Project Coordinator UNIDO Project: XA/RAF/96/646 - 50 Innovative and Successful Industrial Enterprises for the African Region.
- Project Coordinator/ National Expert, UNIDO Project Number US/KEN/96/077 "Introduction of Computer Maintenance Management Systems (CMMS) in Mini Steel Mills in Kenya
- National Project Coordinator, UNIDO Regional Demonstration Pilot Programme Number XA/RAF/95/603 for the Design, Manufacturing, and Testing of Hammer Mills.
- National Project Coordinator, UNIDO Regional Demonstration Pilot Programme Number XA/RAF/94/642 for the Design, Manufacturing, and Testing of Hydraulic Maintenance Press.
- Consultant in the Tripartite In-depth evaluation Mission consisting of UNDP, UNIDO and the Government of Kenya of the Engineering Development and Service Centre; Project No DP/KEN/86/048 in July 1992

8. Ongoing Research Activities:

Currently engaged in literature review work for doctoral research in digital signal and image processing for Biomedical Engineering.

9. Languages:

English, Kiswahili and Kikamba fluently spoken; with keen interest to learn other languages.

10. Travel/ Countries Visited:

Tanzania, Zambia, Ethiopia, Nigeria, Tunisia, Malta, United Kingdom, United States of America, South Africa, The Sudan, State of Eritrea, Rwanda, Cameroon, South Korea, Denmark, Uganda, Egypt, Switzerland, Chile, Uruguay, India, Turkey, Hong Kong, Mauritius, State of Israel, Botswana, Japan and Malaysia.

11. Hobbies:

Swimming, Table Tennis and Physical Fitness.

20th April 2013