

# CURRICULUM VITAE

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Julius.maima@gmail.com
- 3. Date of birth:** October 5, 1958
- 4. Current Employment:** Associate Professor, Department of Mechanical and Manufacturing Engineering, University of Nairobi
- 5. Educational background:**
- 2003 to 2007: University of Nairobi ,Kenya. Degree obtained : PhD in Mechanical Engineering.
  - 1988 to 1990: University of Sierra Leone, Sierra Leone . Degree obtained : Master of Engineering in Industrial Engineering and Management.
  - 1978 to 1981: University of Nairobi ,Kenya . Degree obtained :B Sc, First Class honours in Mechanical Engineering.
- 6. Membership of Professional Organizations**
- Registered Professional Engineer with the Engineers Registration Board of Kenya
  - Member of the Institution of Engineers of Kenya.
- 7. Areas of Expertise**
- Manufacturing Engineering
  - operations Management
  - Engineering design
  - Engineering Economics
- 8. Work experience (non-teaching):**
- (a) 2013 to date: Chairman, Department of Mechanical and Manufacturing Engineering, University of Nairobi.
- Duties:
- Responsible for development of departmental strategic plans.
  - Responsible for performance contracting at departmental level.
  - Allocation of duties to staff in the department.
  - Monitoring progress of work allocated to staff and taking corrective action where necessary.
  - Networking with other Institutions to develop collaboration links.
  - Implement University policies and strategic plans at departmental level.
  - Responsible for quality assurance of academic programs.
  - Responsible for handling student issues in the department.

(b) 2001 to date: Coordinator and Head of Transport & Garage Department, University of Nairobi.

Duties:

- Developed Technical Specifications required for motor vehicle purchases.
- Determined the required levels of manpower and motor vehicles to ensure efficient delivery of transport services.
- Oversaw staff training, discipline and motivation in the Transport and Garage Department.
- Prepared the departmental procurement plans and ensured their implementation within specified time.
- Ensured compliance with the procurement rules, financial regulations and the budget approved by the University's Management Board.
- Implemented transport policies as circulated by the Government and University of Nairobi
- Developed a computer based fleet management system.

(c) 1987 to 1991: Senior Maintenance Engineer and head of Maintenance Department, Kenya Bureau of Standards.

Duties:

- Ensuring compliance with the occupational safety and health act of the laws of Kenya
- Preparation of preventive maintenance programmes for all facilities of the Bureau
- Coordination of maintenance of Air conditioning and refrigeration systems, lifts, standby generators, laboratory and workshop machinery and equipment, motor vehicles, buildings and fire fighting equipment.
- Overall management of pre and post contract stages of all Bureau's development projects

(d) 1985 to 1987: Assistant Senior Standards Officer, Kenya Bureau of Standards.

Duties:

- Drafting Kenya product standards and codes of practice.
- Revision of Kenya product standards to be in pace with the needs of industry and the public.

(e) 1981 to 1985: Assistant Engineer, Jomo Kenyatta International Airport

Underwent Engineers Training Programme. The training involved design and installation of air conditioning systems, fire fighting equipment and water supply systems at the airport. The training also included maintenance of fire fighting trucks and Mechanical installations.

## **9. University Teaching**

(a) March 2015 to date: Associate Professor, Department of Mechanical and Manufacturing Engineering, University of Nairobi.

(b) September 2015 to date: Adjunct Professor, Department of Mechanical and Automotive Engineering, Technical University of Mombasa.

(c) February 2009 to February 2015: Senior Lecturer, Department of Mechanical and Manufacturing Engineering, University of Nairobi.

(d) August 1991 to January 2009: Lecturer, Department of Mechanical and Manufacturing Engineering, University of Nairobi.

Subjects taught: Production technology, Industrial management, Maintenance management, Engineering drawing and Project management.

### **Duties:**

Curriculum development, supervising student projects, field trips and placements for internships, developing external networks and contributing to the internal quality assurance processes, setting and marking of examinations, supervision of undergraduate and graduate student projects, developing teaching materials and sourcing for research funds.

## **10. Postgraduate Supervision and Examination**

### **(a) MSc Supervision and Examination**

Supervised and examined the following MSc thesis:

(i) Kimeu Jonathan Mbutu ( 2012 ) development of optimum energy use model for a petrol station – A case study of selected Libya Oil Kenya Limited petrol stations in Nairobi.

(ii) Mokhongo Harness Sakwa ( 2012 ) an assessment of energy use parameters in the Kenya sugar industry- The case of Nzoia sugar factory.

(iii) An assessment of Energy cost saving- cement grinding case study ( 2010 ).

(iv) Simiyu Kennedy Wabwile ( 2014) opportunities and barriers to implementing energy efficiency in selected pumping installations in Kenya.

(v) Muyesu Fredrick Ridweye (2016) Development of a process for production of Biodiesel Fuel and Glycerine from Sunflower Oil.

### **(b) PhD Supervision**

(i) Supervised to completion the following PhD thesis:

Nyori George Makari (2016) Advanced Manufacturing Technology, Human Factors, Firm size and Structures of Manufacturing firms in Kenya,” by George Nyori.

## **11. Publications**

### (i) Thesis/Dissertation

(a) J.M Ogola (1990) Development of a factory system for the Large Scale Manufacture of Traditional food Products made from Rice in Sierra Leone, M.Eng Thesis , University of Sierra Leone.

(b) J.M Ogola (2007) Technology Diffusion and its impact on Product Development in the Informal Metal working sector in Kenya, PhD Dissertation, University of Nairobi.

(ii) Journal Papers

- a) J.M Ogola (2002) A Survey of the Effects of Excessive Work on the Health of Rural Women in Kenya: A Case Study of Rural Women in Busia District ,Publication of International Congress on Work and Health Workshop, Stockholm, Sweden.
- b) J.M Ogola (2005) Safeguarding the Health and Safety of Female Workers on Horticultural farms in Kenya, Publication of International Congress on Work and Health Workshop, New Delhi, India.
- c) J.M Ogola (2009) Relationship between the routes of training for owners of Small and Medium Scale Informal Industries in Kenya & Product Development, International Journal of Sustainable Development, Volume 2, Number 1, 91-98.
- d) J.M Ogola (2008)Product Development Methods in Small Scale Informal Industries in Kenya, International Journal of Pure and Applied Science, Volume 1-Number 4, 30-36.
- e) J.M Ogola (2008) Limitations of Technology Diffusion in Small Scale Informal Industries in Kenya, International Journal of Pure and Applied Science, Volume 1-Number 1, 107-117.
- f) J.M Ogola (2008)The Relationship between Metalworking Processes, Material Selection, Choice of Equipment and Levels of Training in Small Scale Informal Industries in Kenya, International Journal of Pure and Applied Science, Volume 1-Number 3,1-10.
- g) J.M Ogola(2010) Limitations of Technology Diffusion in Small Scale Informal Industries in Kenya, Organization for Social Science Research in Eastern and Southern Africa, Kenya Chapter, Research Papers, Vol.no.1,16-32.
- h) G. M Nyori, M. Ogutu, and J. M Ogola, (2015), "Influence of Human Factors on the relationship between AMT Adoption and organizational", International Journal of Recent Research in Interdisciplinary Sciences, Vol. 2, Issue 4 pp: (1-22) October-December 2015
- i) G. M Nyori, and J. M Ogola, (2015), "Advanced Manufacturing Technology Adoption In Manufacturing Companies in Kenya" , International Journal of Research in Engineering and technology, Vol. 04, Issue: 10 Oct. 2015.
- j) G. M Nyori, M. Ogutu, and J. M Ogola, (2015), "Planned Organizational Change Consequent to Advanced Manufacturing Technology Adoption", International Journal of Recent Research in Interdisciplinary Sciences, Vol. 2, Issue 4, pp (23-28), October – December 2015.
- k) G. M Nyori, M. Ogutu, and J. M Ogola, (2015), "Advanced Manufacturing Technology And Size As determinants Of Organizational Structure", Researchjournali's Journal of Technology Management, Vol. 2 / No. 4 October / 2015.

## 12. Conference Proceedings

- a) National Workshop on Farm Tools and Equipment Technology, Basic Needs and Employment, International Food and Labor Organization (ILO) & Food and Agriculture Organizations (FAO- UN), Milimani Hotel, Nairobi, October 1985 Presented a paper entitled "Agricultural Implements Manufacturing Policy"
- b) Africa Technology Policy Studies (ATPS) workshop of Researchers, Harare, Zimbabwe June 1992 presented a research paper entitled "Energy Conservation Management in Kenya: Choice of Technology, Policies and Constraints!"
- c) ATPS Workshop of Researchers, Naro Moru, Kenya, October 1994 Presented a paper entitled "Prospects and Problems of Local Manufacturers in Maintaining production of quality farm tools; a case study of small scale manufacturers!"
- d) International Congress on Work and Health Workshop, Stockholm, Sweden, June 2002 Presented a paper entitled "A Survey of the Effects of Excessive Work on the Health of Rural Women in Kenya- A case study of rural women in Busia District, Kenya"
- e) International Congress for Work and Health Workshop, New Delhi, India, November 2005 Presented a paper entitled "Safeguarding the Health and Safety of Female Workers on Horticultural Farms in Kenya"
- f) From 17<sup>th</sup> June 2013 – 25<sup>th</sup> July 2013, Participated as a programme assessor for an advanced technology and Tasks in Automobile Engineering programme at Nagoya University in Japan.
- g) From 11<sup>th</sup> – 12<sup>th</sup> September 2014, Participated in the 5<sup>th</sup> International Conference on Plastic Piping Systems for Transportation of Fluids hosted by The Kenya Bureau Of Standards, (KEBS), Nairobi.
- h) From 8<sup>th</sup>-11<sup>th</sup> November 2016,presented a paper titled"Advanced Manufacturing Technology and Technical Labour in Manufacturing Companies in Kenya" in International conference for Engineering and Technology at the University of London,United Kingdom.

## 13. International Research collaboration

- a) June 2013 to September 2014: Involved in design and production of an Airship for observing Elephants from the sky in collaboration with Prof. Emmanuel Leleito of Nagoya University, Japan.
- b) September 2014 to date: Involved in development of Research Proposal in collaboration with Prof. Emmanuel Leleito of Nagoya University, Japan in order to acquire funding for design and production of Formula One Student Race Car expected to form basis of advancing technology in Africa's premier Universities.

## 14. Consultancy work

- (a) Design of Mechanical installations:
  - i. Extension to administration Building, Medical School, University of Nairobi (2000 to 2001)
  - ii. Extension to Civil Engineering Block, Faculty of Engineering, University of Nairobi (2001 to 2002)
  - iii. Construction of Laboratory at College of Health Sciences (2002–2003)
  - iv. Construction of a block of classes and offices, Department of Advanced Nursing, University of Nairobi (2003 to 2006)

- v. Construction of blocks of offices, classes and laboratories; Southern Eastern University college(2008 to date)  
The Mechanical Installations included cold water piping, internal drainage, fire fighting equipment, roof drainage, gas piping, fume cupboards, cold rooms' equipment, laboratory and sanitary appliances and air conditioning equipment
- (b) Supervised Economic stimulus projects in Busia county(2010 to 2011)

## **15. Community Service**

- (a) 1996 to 1998: Vice chairman of the Parents and Teachers Association for Our Lady of Mercy Secondary School in Nairobi and Chairman of the School projects Committee. During this period, I helped the school to build a multi-purpose dining hall through technical advice and fund raising.
- (b) 2007 to date: Member of Board of Governors for Tingolo Secondary school in Busia County.

## **REFEREES**

**Professor P. M. Ngau**  
**Principal, College of Architecture and Engineering**  
University of Nairobi  
P.O. Box 30197-00100  
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**Professor J. M. Mbutia**  
**Dean, School of Engineering**  
University of Nairobi  
P.O. Box 30197-00100  
Nairobi, Kenya.

**Professor S. M. Mutuli**  
Mechanical and Manufacturing Engineering Department  
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P.O. Box 30197-00100  
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**PROF. JULIUS MAIMA OGOLA**

**MAY, 2017**