

CURRICULUM VITEA

BIO DATA

Name David Masinde Munyasi
Gender Male
Marital Status Married
Religion Christian
Language English, Kiswahili, Luhya
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EDUCATION QUALIFICATIONS

- i) Bsc Mechanical Engineering, university Of Nairobi (1978)
- ii) Msc Mechanical Engineering University Of Nairobi(1986)
- iii) Pursuing a PhD Degree course by research and thesis . the title of the research work is “Assessment Of Stone Crushing Characteristic and The Optimal Dynamical And Structure Design of Stone Crusher for Small scale Entrepreneurs at the University of Nairobi.(2011)

REGISTRATION WITH PROFESSIONAL SOCIETIES

- i) Engineer Registration Board of Kenya
- ii) National Environmental Management Authority
- iii) Director of Safety and Health Ministry Of Labours

MEMBERSHIP

- University of Nairobi Alumni Association
- Friends School Kamusinga Alumin Association

EMPLOYMENT

A past employers

October 1997-june 1998

Kenya Industrial Research and Development Institute, P.O Box 30650-Nairobi

Appointed as senior research officer and my duties and responsibility were:

- Building local technological capacity and culture in order to facilitate the country direct natural aspirations towards the development of a well founded local technological base. This was in view that Kenya has to be industrialized by year 2030
- Providing guidelines on technological development, choice transfer and adaptation
- Streamlining and strengthening institutional arrangement, linkages and capacity building
- Promoting private sector participation in industrial technological development
- Design and fabrication of machinery and equipment for entrepreneurs.
- Training technical staff and engineers in small and medium scale enterprises

July 1994-June 1996

Nzoia Sugar Co. Ltd

P.O Box 285 Bungoma

Appointed as engineering manager and duties and responsibilities included:

- managing and administering activities by ensure that plan and programmers for plant and equipment were upto date
- Looking into problems arising out of the technology of sugar manufacturing process with a view of modifying or redesigning
- Striving for high productivity and quality improvement in all facts of sugar production
- ensuring proper energy management
- training of technician and engineers
- Budgeting and financial control of factory department

February 1987-June 1992

- First appointment to Nzioa Sugar Company as workshop and planning engineer in factory department the duties and responsibilities were:
- Proper management of the central workshop as second line maintenance system by preparing plans and schedule for planting maintenance
- Planning for operation reliability by ensuring that the implementation of maintenance schedule are followed
- Analyzing the effects of planned activities in order to see whether the activities themselves, their implementation, time intervals, subsequent checks etc are at peak efficiency

July 1985-January 1987

Ministry of Water Development

P.O Box 49720

Nairobi

Headed Electrical Mechanical Division Coast Province Water Branch.

Duties and responsibility were:

- Advising the provincial water engineer in all activities of mechanical and electrical maintenance of plant and equipment.
- Advising the provincial water engineer on the procurement of plant equipment and vehicles and the disposal of the same
- Ensuring that the operation and maintenance of plant , equipment and vehicle were of high standards. Liaising with donor agencies like KEFINCO, DANIDA, etc within the province on the construction of water supplies in rural communities.

July 1983-june 1985

Headed the Ministry of Water Development Central Workshop Nairobi

Duties and responsibilities were:

- Ensuring proper management of the ministry fleet of vehicles as regards to maintainability and documentation.
- Taking care of the financial control of the workshop by ensuring that expenditure is within the budget
- Training of technician and engineers.

August 1980-June 1983

Headed Mechanical Section Within The Department of Technical Services Ministry of Water Development Duties and Responsibilities Were:

- Designing of new mechanical workshop country wide
- Managing and administering the activities by preparing plans and programmes for individual activities of the section and allocating duties to each member of staff.
- Ensuring that the procurement of plant, equipment and vehicles were within the prescribed standards.
- Drafting and implementation of new organization manual for ministry plant and equipment.
- Organizing and supervising training programmes for the ministry staff handling mechanical equipment during operation and maintenance.

July -1978-July 1980

- Undertook training in the Ministry of Water Development for graduate engineers prepared by ministry in accordance with the requirement of the engineers registration board of Kenya and the institution of Engineers of Kenya
- Pursued MSc degree at the University of Nairobi by research and thesis. The title of the thesis was” The Effect of Transverse Sensitivity of Resistance Wire Strain Gauge on Strain Measurement”

Present Employer

July 1998 to Date

University of Nairobi

Department of Mechanical and Manufacture Engineering

P.O Box 30197 -00100

Nairobi

POST LECTURE

Area of specialization: Solid and structural mechanics experiment stress analysis

Duties and responsibilities include:

Research and Teaching Duties

I teach and carry out research at both undergraduate and postgraduate levels

PROJECTS/RESEARCH SUPERVISED AND EXAMINED

a) Undergraduate level

Among the many projects I have supervised and successfully examined are:

1. Design of Tricycle for a Physically Handicapped Person -1999

Students:	Kivindu M.R	F18/1951/93
	Kiswahili M.H	F18/1940/93

2. Design of a 5 Tonne Capacity Manually Operated Overhead Crane -2001

Student	Ongondo L.O	F18/2035/96
	Ongao M.E	F18/2034/96

3. Student of economic of reliability

Engineering: a case study at the Kenya Airways -2001

Student	Ouko Herms	F18/2056/96
	Odera O.	F18/2028/96

4. The development of computer software for the maintenance of medium fleet of Aircraft : Case Study At Boskovic Air Charters Ltd -2002

Student	Ojwang O.A	F18/5140/90
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5. Design Fabrication and Testing of a load Transducer -2003

Student	Kamau B.N	F18/1928/98
	Oteino S.A	F18/7204/98

6. Design of a Sugarcane Transport System that is Economical to the Farmer, Transporter and the Miller -2004

Student	Masaba G.M	F18 /1950/99
	Masoni K.W	F18/1912/99

7. Design and Fabrication of a Spring Loaded Brick Macking Machine 2005

Student	Tolgos T.A	F18/1596 /2000
	Ndiana M.J	F18/1597/2000

8. The Mechanical Properties of Sugarcane Baggage and its Reinforced Epoxy Resin Composite 2011

Student	Indasi I.M	F18/1840/06
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9. Laboratory Validation of a Proposed Theory for Determination of Large Deflection of A Class of Cantilever Beams

Student	Angila O.J	F18/1847/06
	Njiru D.M	F182039/05
	Wekesa W.E	F18/0362/05

10. Use Of Uniaxial Strain Gauges in Two Dimensional Strain Field And determination of Correction Factor the Strain Read By a Commercial Strain Indicator-2005

Student	Ashiebi A.P.	F18/1934/99
	Wekesa M.M	F18/1925/99

11. Design of a Banana Juice Extraction device -2007

Student	Kimani Mbugua	F18/7878/01
	Rono K. Gideon	F18/7867/01

12. The Mechanical Properties of Sugarcane Bagasse and its Reinforced Epoxy Resin Composite-2011

Student Indiasi I.M F18/1840/06

b) Postgraduate level(**MSc –Thesis Supervised to Completion**)

Research titles the mechanical properties of sisal fibre reinforced composites of Epoxy Resin And Rice Husk Ash Possolanic Cement-2001

Student Wycliffe Odegi Ngala

c) **PART TIME LECTURING**

Taught on part time basis and examined stunts at

- i. Jomo Kenyatta University of Agriculture And Technology Mechanical Engineering Department in the Following Subjects:
 Unit EME 2312 –Material Processing Year 2 – 2000-2003
 Unit EME 2511 –Experimental Stress Analysis Year 5 -2000-2003
- ii. Egerton University, Department of Industrial and Energy Engineering
 Unit IIEC III –Solid Mechanical –Year 1 2009
 Unit IIEC 114 –Industrial Safety –Year 1 2009
- iii. The Kenya Polytechnic University College Department of Aeronautical Engineering Subject Taught: EEAQ 215 Solid and Structural Mechanic Year 2 - 2011

Departmental duties

Class tutor year 1

Member of the committee for teaching time table school of engineering

Represents the department at the Kenya bureau of standards in the following technical committees

- 1) The technical committee of tractors, machinery for agriculture and forestry – TC12
 - 2) The technical committee of plastic pipe and fitting 2000-2011
- Member of the committee on curriculum review -2008

CONSULTANCY WORK

- i. Mechanical engineer in project undertaken by Industrial Research and Consultancy Unit (IRCU), University of Nairobi. Some of the project undertaken in mechanical engineering building services are:
 1. The Proposed Centre for Advanced Studies in Environmental Law and Policy (CASLAP)-2005 – Not implemented.
 2. The Rehabilitation of Chiromo Cafeteria -2005 –Implemented.
 3. The extension to the Department of Medicine (classrooms) -2000- completed
 4. The extension of Administration Building at the School of Medicine -2000-completed.
 5. The Rehabilitation of Chiromo Mortuary -2006- completed.
- ii. Appointed by the University of the Committee of experts to draw up a Policy for Maintenance and Disposal of University asses (Buildings, Machinery e.t.c) -2010-completed.

CONFERENCE PAPER PRESENTED

1. Ngala W.O, Mutali S.M and Munyasi D.M “The Mechanical Properties of Social Reinforced Rice Husk Epoxy Resin Composites “In the proceeding of the Mechanical Engineering 6th Annual Seminar Held at Jomo Kenyatta University Of Agriculture And Techniology, Juja Near Nairobi Kenya 2000
2. Oduori MF .DM Munyasi and T.M Mbuya “Case For Agriculture And a Homegrown Agriculture Machinery Ndustry of Kenya “ In The Proceeding Of The 10th Biennial Conference Held at The Agriculture Research Institute Headquarters 2006.
3. Munyasi J.W Oduari F.M and Munyasi DM “Assesment of The Potential Of The Scale Sisal Industry in Katanga Division, Machakos District” In The Proceeding of The 11th Biennial Conference Held At Kenya Agriculture Research Institute Headquarters Nairobi Kenya 2008
4. Ngala W.O Mutuli SM And Munyasi DM The Interfacial Bond of Sosal Fibre Reinforced Rice Husk Asha Cement Composite “ Discovery And Innovation , The African Academy of Sciences Nairobi Kenya 2012.
5. D.M Munyasi, F.M Oduari and S.M Mutuli “An Overview of Small Scale Stone Crusher Industry in Western Kenya “In The Proceeding of The 20th Engineers

International Conference Held at Tom Mboya Labour Collage Kisumu Kenya, 2013.

SEMINARS

1. Organization and Management of Industrial Maintenance –Stock Holm-Sweden 1987
2. Production and Plant Maintenance –ESMI –Arusha-1990
3. Lubrication in Machinery –Organized By Shell- Kisumu 1991
4. Continuing Education Workshop on Rehabilitation and Repair of Structure with The Institution of Engineers of Malaysia –Nairobi-1996
5. Implementation of ISO 9000 standards in industry organized by Kenya Bureau of Standards Nairobi -2000
6. The 3rd International Plastic Piping System Conference Organized By The Kenya Burea of Standards –Nairobi 2011

REFEREES

1. Prof. Maurice K. Mangoli
Senior Lecturer
Department of Electrical and Information Engineering
University Of Nairobi
P.O. Box 30197
Nairobi
2. Prof. S.M Mutuli
Chairman Department Of Mechanical and Manufacture Engineering
University Of Nairobi
P.O Box 30197-00100
Nairobi
3. Prof F.M Oduari
Senior lecture
Department Of Mechanical and Manufacture Engineering
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