

VICTORIA AKOTH OKUMU
DATE OF BIRTH: 30TH MARCH 1982

MARITAL STATUS: MARRIED

SEX: FEMALE

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CAREER OBJECTIVE

I wish to pursue excellence and to contribute significantly towards the development of the Civil Engineering Industry for a sustainable society through innovative research.

EDUCATIONAL BACKGROUND

2015- 2018	PAN AFRICAN UNIVERSITY INSTITUTE OF SCIENCE AND TECHNOLOGY (PAUISTI). Hosted at Jomo Kenyatta University of Agriculture and Technology (JKUAT) Doctor of Philosophy in Civil Engineering. (Structural Engineering Option)
2008- 2010	MOI UNIVERSITY Master of Science in Structural Engineering.
2001-2006	MOI UNIVERSITY Bachelor of Technology in Civil and Structural Engineering, 2 nd Class Honors (Upper Division).
1996-1999	ST. BARNABAS GIRLS HIGH SCHOOL Kenya Certificate of Secondary Education (KCSE) Aggregate Score A - (Minus).

WORK EXPERIENCE

August 2019 to Date

MULTIMEDIA UNIVERSITY OF KENYA

Position: Senior Lecturer and chair of department

Special Duties Include:

- Managing the civil engineering department.
- Teaching Structural Engineering courses in the department of Civil Engineering.
- Carrying out and participating in research activities of the faculty.
- Supervision of post graduate students.
- Participating in Tender evaluation committees.

SEPT 2012 TO July 2019

MULTIMEDIA UNIVERSITY OF KENYA

Position: Lecturer

Special Duties Include:

- Teaching strength of materials, solid and structural mechanics, material science and engineering mechanics courses in the faculty of engineering.
- Carrying out and participating in research activities of the of the faculty.
- Participating in curriculum development of the various programs in the faculty including Civil Engineering program.
- Participating in Tender evaluation committees.

JULY 2011 TO AUG 2012 MOI UNIVERSITY

Position: Lecturer

Special Duties Include:

- Teaching structural engineering courses in the department.
- Carrying out and participating in research activities of the materials and structures group of the department.

- Participating in the civil engineering curriculum review process.
- Participating in writing research proposals to attract funding to the university.

NOV 07 TO JULY 2011

MOI UNIVERSITY

Position: Graduate Assistant

Special Duties Include:

- Assisting senior lecturers in teaching structural engineering courses in the department.
- Carrying out and participating in research activities of the materials and structures group of the department.
- Organising diverse uses of concrete workshops for the department.
- Participating in writing research proposals to attract funding to the university.

JAN 07 TO SEPT 07

SCETAUROUTE INTERNATIONAL

Rehabilitation of the Njoro Turn off –Mau Summit- Timboroa Road (A104).

Position: Assistant Materials Engineer

Special Duties Included:

- Materials Testing and Quality Control.
- Materials Test Analysis and Presentation of Results.
- Laboratory Record Keeping.

SEP 06 TO JAN 07

H YOUNG &CO. (EA) L T D

Repair and Rehabilitation of Katito – Kendu Bay Road (C19)

Position: Assistant Site Engineer

Specific Duties Included:

- Supervision of Works.
- Preparation of End Month Interim Payment Certificates.

- Preparation of Monthly Progress Reports.
- Interpretation of Drawings and Instructions from the Resident Engineer.

MAY 06 TO SEPT 06

H YOUNG & CO. (EA) LTD.

Sondu Miriu Hydro – Power Project

Position: Trainee Engineer

Specific Duties Included:

- Inspection and supervision of works.
- Materials testing and quality control.
- Preparation and checking of reinforcement bar bending schedules.
- Steel design for stanchions and transformers foundation.
- Reinforced concrete design detailing (AUTOCARD).

PROFFESIONAL ASSOCIATION

- Registered Graduate Engineer with the Engineers Registration Board (ERB).

PUBLICATIONS

5 Refereed Journal Publications and One awaiting publication

	Journal	Manuscript Title	Authors	Year	Page
1	Journal of Sustainable Research in Engineering (JSRE)	The Suitability of the Kenyan Blended Portland Cements for Structural Concrete Production	Okumu. V. A.	2018	55-68
2	American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)	Determination of Appropriate Mix Proportions for the Kenyan Blended Portland Cement Concrete Production	Okumu V.A, Shitote S. M. Oyawa W. O.	2017	265-286
3	Open Journal of Civil Engineering (OJCE)	Influence of Constituent Materials Properties on the Compressive Strength of in Situ Concrete in Kenya	Okumu V.A, Shitote S. M. Oyawa W. O.	2017	63-81
4	International Journal of Scientific Research and Innovative Technology	Mechanical, Structural and Gravimetric Properties of Rice Husk Particle Reinforced Polypropylene Composite	Odhong E. V Okumu V.A,	2017	209-224

5	WIT Transactions on Ecology and the Environment.	The Dynamics of IWRM Policies in a water scarce catchment in Kenya, application of WEAP21 Model.	Akivaga E. M. Okumu V.A Otieno F.A.O Kibiiy J. Kipkorir E. C.	2011	455-466
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6 CONFERENCE PROCEEDINGS PAPERS

	Conference Name	Manuscript Title	Authors	Year
1	International Conference On Capacity Building For National Sustainable Development (CBNSD-2018)	Design And Fabrication Of Rise Husks Particle Reinforced Polypropylene Composite.	Odong O. V. E Okumu V. A.	2018
2	7 th INTERNATIONAL CONFERENCE OF KABARAK UNIVERSITY	Structural, Morphological and Functional Characterization of Rice Husk Particle Reinforced Polypropylene Composite.	Okumu V. A. Odong O. V. E	2017
3	The 2016 Annual Conference on Sustainable Research and Innovation (SRI).	The Effect of the Properties of Constituent Materials on the Quality of Concrete in Kenya.	Okumu. V. A. Shitote S. M. Oyawa W. O.	2016
4	Institute of Engineers of Kenya International Conference	Shelter Planning and Provision for the Kenyan Counties.	Okumu V.A, Shitote S. M.	2011
5	Institute of Engineers of Kenya International Conference	A Modular Design Alternative for Affordable Housing in Kenya.	Okumu V.A, Shitote S. M.	2010
6	JKUAT International Conference	Energy Considerations in Sustainable Construction.	Okumu V.A, Shitote S. M.	2010

POST GRADUATE STUDENTS SUPERVISION

April 2018 to date

Co supervising one PhD student (Hannah Ngugi) at PAUISTI.

Research Title

Influence of variation in moisture content on differential settlement

January 2019 to date

Supervising one MSc student (Tokpomehoun Gildas Mahougnon)

at **PAN AFRICAN UNIVERSITY INSTITUTE OF SCIENCE**

**AND TECHNOLOGY (PAUISTI). Hosted at Jomo Kenyatta
University of Agriculture and Technology (JKUAT)**

Research Title: Investigating the Potential of Using the Plastic Bottles and Cow
Dung for Low Cost Housing.

LEADERSHIP EXPERIENCE

March 2019 to date Ag. Chairperson, Civil Engineering Department, Multimedia
University of Kenya.

June 2015 to June 2018 Trustee, Multimedia University Pension Scheme.

Sept 2017 to date Coordination of the Civil Engineering Program in the Faculty of
Engineering Multimedia University of Kenya.

JAN 2015 TO DATE Coordination of the research activities in the faculty of
Engineering Multimedia University of Kenya.

HOBBIES Reading, Traveling and Watching Movies.

PERSONAL ATTRIBUTES AND COMPETENCES

Trustworthy, self-motivated, aggressive and a good team player. Able to work with minimal
supervision.

LANGUAGES English, Kiswahili and Luo.

REFEREES

1. Eng. Pro. Abel Mayaka,
Dean, Faculty of Engineering,
Multimedia University of Kenya,
P.O.BOX 30305-00100, NAIROBI.
Tel : 0723082890.

2. Eng. Prof. S. M. Shitote,
Deputy Vice Chancellor,
Administration, Finance and Planning,
Rongo University,
P.O.BOX 103-40404, RONGO, KENYA.
Tel: 0729- 840852, 0733-678884.

3. Eng. Prof. Walter Oyawa
Professor, Department of Civil Engineering,
Jomo-Kenyatta University of Agriculture and Technology,
P. O. Box 62000 – 00200, NAIROBI
Tel: 0728 215578.