
Curriculum Vitae

PERSONNAL DETAILS

Name: Dr. Osano Simpson Nyambane
Nationality: Kenyan
Marital Status: Married
Year of Birth: 11th August 1978
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SUMMARY OF EXPERIENCE

I have over three years of lecturing experience with experience in research and industry in the field of Civil Engineering. The teaching areas include geotechnical engineering and engineering management. I have published five scholarly articles, three being peer reviewed papers. I have supervised construction of a wide range of civil engineering projects including roads, airports, water projects and irrigation schemes.

ACADEMIC QUALIFICATIONS

- Ph.D. (Civil Engineering), University of Nairobi (2012)
 - M.Sc. (Civil Engineering), University of Portsmouth, UK (2004)
 - B.Sc. (Civil Engineering), University of Nairobi (2003)
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EMPLOYMENT RECORD

Feb. 2013 to date:

Lecturer, University of Nairobi, Department of Civil and Construction Engineering

Duties include administering lectures to undergraduate and postgraduate students and conducting research in geotechnical Engineering.

2009 to Feb.2013:

Tutorial Fellow, University of Nairobi, Department of Civil and Construction Engineering

I was obliged to perform for the Department of Civil and Construction Engineering under the supervision of Prof. SK Mwea and Prof. FJ Gichaga in the area of Geotechnical Engineering and Engineering Management.

Responsibilities;

- (a) Arrangement of tutorial and class teaching for 3rd year class and offering service courses.
- (b) Administering Soil Mechanics/Geotechnical Engineering and Engineering Management units to 3rd Year class and in Department of Geospatial and Environmental & Biosystems Engineering.
- (c) Monitoring students' progress through written reports, collections (regular tests of performance), and assessment of vacation work;
- (d) Supervision of laboratory testing for undergraduate students
- (e) Supervision of 5th Year Individual Project Students.
- (f) Writing references for students, and dispensing career advice.

2006 - 2009:

Contracts Manager, Kundan Singh Construction Ltd

Responsibilities

- a) Reviewing and managing the company's site management and operational systems, procedures and controls to ensure that they are professional, workable and sustainable
- b) Providing proactive public relations regarding construction projects and enhancing the company's image
- c) Supervising and controlling Engineering Department
- d) Responsible for all administrative matters in Engineering Department
- e) Monitoring and supervising designs, construction and maintenance of works

SELECTED ACADEMIC ASSIGNMENTS

1. Undergraduate Teaching

Department of Civil and Construction Engineering

- a) Geotechnical Engineering I (Third year of study)
- b) Engineering Management I (Third year of study)

Departments of Geospatial and Space Technology

- a) Introduction to Engineering (First year of study)
- b) Geotechnical Engineering (Third year of study)

c) Highway and Transport Engineering (Fourth year of study)

Departments of Environmental and Biosystems Engineering

a) Geotechnical Engineering (Fourth year of study)

REFEREED RESEARCH PUBLICATIONS

1. Refereed Journal papers

Osano SN & Mwea SK, 2011, "Root tensile strength of 3 typical plant species and their contribution to soil shear strength: a case study: Sasumua Backslope, Nyandarua District, Kenya", *Journal of Civil Engineering and Practice*, Vol. 8 No. 1, April 2011, pp. 57-73

Osano SN Mwea SK and Gichaga FJ, 2012, "Pull-Out Resistance of 3 different plant Species and their application in slope stabilization works", *Journal of Engineering Indian Centre for Advanced Scientific and Technological Research (Icastor)*", Volume 5, No. 1 January 2012

Osano SN, 2012 "Direct shear box and ring shear test comparison: Why internal angle of friction vary", *Journal of Engineering Indian Centre for Advanced Scientific and Technological Research (Icastor)*", Vol. 5, No. 2 (2012) 77 – 93

2. Conference proceedings

Osano SN & Mwea SK, 2008 "The Effects of Vegetation Roots on Stability of Slopes", *Conference Proceedings of the 2nd International Civil Engineering Conference on Civil Engineering and Sustainable Development*, Page 785.

3. Reviewed articles

Osano SN and Mwea SK, 2012, "Design tables and guidance for root reinforced soils", *Kenya Engineer*, March 2012

4. Paper under Review

Osano SN, 2012, "Deciding on the best way to procure contracts in Kenya and save the local contractors from foreign giants", *Kenya Engineer*, Paper under review. To be published in the next issue of June 2012.

5. Paper under peer review

Osano SN & Mwea SK, Watson PD, 2012 "The effect of strain rate and specimen length on the stress-strain relationship of vegetation roots used in slope stabilization', *Canadian Geotechnical Journal*. This paper was submitted in April 2012 and is being peer reviewed.

CURRENT RESEARCH

The state and properties of underlying volcanic soil that caused fissures along Maai Mahiu - Narok Road in Kenya during the long rain season of February to May 2012

List of researchers:

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- (a) Osano SN
 - (b) Prof. Mwea SK
 - (c) Prof. Gichaga FJ
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CONFERENCES ATTENDED

- 3rd -7th Nov. 2008** **Seminar:** Contract Management Seminar
Speakers: Eng. FW Ngokonyo, Dr. FN Nyangaga, Mr. Kenneth Mwangi, Eng. SM Ngare, Eng. I Wanjohi, Eng. George Matheri, Eng. Charles Fraser and Eng. Sam Mambo.
- 16th Oct. 2008** **Topic:** Construction Contract Claims
Speaker: John S Mbaya
- 16th Nov. 2004** **Topic:** What does integration mean in today's transport policies, London
Speaker: Prof. Stephen Glaister
- 2nd Dec. 2004** **Topic:** Flood Management and Flood Plain Development, London
Speakers: Prof. Edward Evans and Prof. Colin Green

SELECTED INDUSTRIAL ASSIGNMENTS

Feb. 2006 – To date

Consultancy services as a project engineer

Involved in planning, coordinating project activities and enhancing their execution, and preparing and controlling monthly project budgets

1. Ngethu – Sasumua Water Production Improvement Project
Project Value: KShs. 890,000,000
2. Construction of Pavement at New Songwe Airport- Mbeya in Tanzania
Project Value: KShs. 1,042,000,000
3. Kisumu Water Supply and Sanitation Project
Project Value: KShs. 430,000,000
4. Hola Irrigation Scheme
Key Item:
Responsible for design of the intake system
Project Value: KShs. 494,200,000
5. Construction of Thogoto – Gikambura – Mutarakwa Rd Phase 1

Project Value: KShs. 1,042,000,00:

AFFILIATION

Member, The Institution of Engineers of Kenya
Member, Engineer's Registration Board

LANGUAGES

<i>Languages</i>	<i>Written</i>	<i>Reading</i>	<i>Spoken</i>
English	Excellent	Excellent	Excellent
Kiswahili	Good	Good	Good

REFERENCES

1. Prof. Sixtus Kinyua Mwea
Chairman, Department of Civil and Construction Engineering
University of Nairobi
P.O. Box 30197 GPO
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Mobile: +254 722 720435
Email: smwea@uonbi.ac.ke
2. Prof. F. Gichaga
Professor, Department of Civil and Construction Engineering
University of Nairobi
P.O. Box 30197
Nairobi
3. Mr. Samuel Kibocha Ngari
Senior Lecturer, Department of Civil and Construction Engineering
University of Nairobi
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