

1 CURRICULUM VITAE (CV).

Family Name: **Osano**
 First Name: **Simpson Nyambane**
 Date of Birth: **11th August 1978**
 Nationality: **Kenyan**
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 E-mail: simposano@yahoo.com,

1.1 EDUCATION:

Period	Course
June 2006 – February 2012	PhD, Department of Civil and Construction Engineering, University of Nairobi
Sept. 2003 – Dec. 2004	MSc Civil Engineering Degree, University of Portsmouth, UK
Sept. 1998 – June 2003	BSc Civil Engineering, University of Nairobi
Other Trainings	
2006	Design Civil 3D
2008	MS Project

1.2 LANGUAGE

Language	Reading	Speaking	Writing
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Excellent

1.3 PRESENT POSITION:

Chairman - September 2020 to date - Department of Civil & Construction Engineering

Senior Lecturer – Feb 2019 to date - Department of Civil & Construction Engineering, University of Nairobi

Civil Engineering Consultant: Civil and Structural Engineering Projects consultant

1.4 KEY QUALIFICATIONS:

Over 11 (eleven) years lecturing and research experience, both as a Tutorial Fellow, Lecturer and Senior Lecturer, and over Fifteen (15) years extensive experience in civil engineering design, construction works and supervision of projects. Have been involved in the design, tender documentation, project management and supervision of irrigation projects, water projects, runways and roads.

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I have 9 years of post-registration experience in planning, design, and implementation of multidisciplinary projects in roads and airports. I am a Professional Engineer in Civil Engineering (Registered Consulting Engineer with Engineers Board of Kenya (EBK – 2019), (Registered Engineer with Engineers Board of Kenya (EBK – 2012), and a Corporate Member of the Institution of Engineers of Kenya, IEK - 2012).

In construction supervision I have a wide experience after working as Design Engineer, Team Leader, Geotechnical Engineer and Materials Engineer. I have a thorough knowledge in the international construction industry, governments and administrative procedures; and implementation schedule.

I have attended several workshops, seminars and short courses to enhance my professional capabilities.

1.5 KEY COMPETENCE

1. General office administration & overheads
 2. Vast experience in Civil works both design and supervision
 3. Team leader in various roads projects
 4. Able to work under pressure with minimal supervision
 5. Good conduct and high moral integrity
 6. Possesses an analytical mind with excellent reporting skills
 7. Excellent interpersonal communication and strong networking skills
 8. Excellent Contract management skills
- Train staff seconded to the project in preparation for registration with the Engineer's Board of Kenya as professional Engineers.

Extensive knowledge of all Microsoft Office program and Design Programmes. I am experienced in the use of advanced Internet search engines. They are summarized below:

- CAD Proficiency –proficiency in AutoCAD
- Design Programmes: CIVIL 3D,
- Project Management Software – Competent in Microsoft Project
- Competency in Microsoft Office suite programs

1.6 ASSIGNMENTS AND ADMINISTRATIVE DUTIES - UNIVERSITY OF NAIROBI

1. Chairman - Department of Civil & Construction Engineering (September 2019 to date)
2. Exams officer - Department of Civil & Construction Engineering (2013 to 2019)
3. Commoner, School of Engineering shows and exhibition committee (2017 - 2018)
4. Member of Post Graduate Examination, School of Engineering (2015 to 2019)
5. Coordinator, DSP/ CESSP (2012 to 2019)
6. Acting Chair Department of Civil and Construction Engineering at the University of Nairobi (2018, 2019)
7. Appointed to the Committee on Review and Amendment to the UNSA Constitution of University of Nairobi, comprising of 18 members (September 2021)

1.7 MANAGERIAL POSITION – CHAIRMAN (HEAD OF DEPARTMENT), DEPARTMENT OF CIVIL AND CONSTRUCTION ENGINEERING – UNIVERSITY OF NAIROBI

Duties;

1. Leadership and management of all academic matters in the department

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2. Responsibility for research
3. Knowledge transfer
4. People management
5. Financial management by developing budgets in compliance with University financial regulations
6. Quality assurance

Achievements

1. Research grant attraction
 1. Negotiated and entered into a KeNHA-UoN Collaboration Agreement amounting to KShs. 151Million, commencement January 2021.
 9. Organized a successful 1st Road Safety Conference, hosted at the Department of Civil & Construction Engineering, University of Nairobi – October 14th and 15th, 2021. Generation KShs. 1,500,000 to the University. This became an annual event, with printing of Conference Proceeding Magazine.
2. Webinars
 2. Road Safety Providing Safe Streets to All Road Users, hosted at the Department of Civil & Construction Engineering, University of Nairobi – March 26, 2021.
10. Mentorship addresses in various occasions
3. Development of Working relationship with Alumni and Industry players aimed at absorbing graduates, leading to placement and exposure of our graduating groups to potential employers,
4. Improved customer response, achieving a high satisfaction level,
5. Mentorship of students and helping mental cases to recover and complete their studies,

1.8 RESEARCH AND PUBLICATIONS

2008

1. 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.

2011

2. 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

2012

3. 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
4. Osano SN and Mwea SK, 2012 ‘Design tables and guidance for root reinforced soils’, Kenya Engineer, March, 2012.
5. Osano SN, 2012 ‘Deciding on the best way to procure contracts in Kenya and save the local contractors from foreign giants’, June, 2012.

2015

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6. Osano SN & Mwea SK, 2015 “The effect of strain rate and specimen length on the stress-strain relationship of vegetation roots used in slope stabilization” *Icactor*, Volume 8, No. 1, January 2015.

2017

7. S. A. Okinyi, S. N. Osano & S. K. Mwea, (2017). The effect of specimen length on pull-out resistance & the relationship of soil-geotextile interface used in high fill reinforcement: A case study of Nyamasaria - Kisumu roads, Kenya. *Icactor* Vol. 10, No. 3 (2017) 33-39

2018

8. Macharia P.G., Osano S.N., Mwea SK (2018) ‘Geosynthetics in road pavement design and construction: the Lamu-Garissa Road Project’, *Icactor* Vol. 11, No. 3 (2018)
9. Osano S.N, Macharia P.G. (2018) Geotextile materials in Kenya for pavement reinforcement function. *Icactor* Vol. 11, No. 3 (2018) 111-118
10. Okinyi S. A., Osano S.N., (2018) The effect of surcharge Pressure on soil-geotextile interface: A case study of Kisumu roads, Kenya.” *Icactor* Vol. 11, No. 3 (2018) 103-110
11. Osano S.N., Nyang’au T.M., (2018), ‘Interpretation of the Falling Weight Deflectometer (FWD) testing Data for the Nairobi Eastern By-Pass Road Flexible Pavement’, *International Journal of Scientific and Research Publications*, Volume 8, Issue 12, December 2018 101 ISSN 2250-3153

2020 – Since last promotion as Senior Lecturer

12. S.N. Osano, K.O. Amollo, R.O. Ouko (2020) ‘Data-Driven High Collision Location Identification and Corrective Countermeasures on Roads in Kenya’, *International Journal of Scientific and Research Publications*, Volume 10, Issue 10, October 2020
13. Onesmus Kituku, S.N Osano & S.K Mwea (2020), ‘Performance Evaluation of Pedestrian Facilities at Donholm Interchange along Outer Ring Road Nairobi, Kenya’, *Icactor Journal of Engineering* Vol. 13, No. 1 (2020) 1 – 15

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14. S. N. Osano and F. O. Obat (2021), ‘Pedestrian Travel Speed: Case Study of Tom Mboya Street in Nairobi Kenya’, *ICASTOR Journal of Engineering* Vol. 14, No. 1 (2021) 1 – 18
15. Abigail Muigai, S.K. Mwea and S.N. Osano (2021), ‘Assessing Strength of Plastic Paving Blocks for Construction of Non-Motorised Transport Facilities’, *East African Journal of Engineering*, Volume 4, Issue 1, 2021. Print - 2707- 5389 and Online - 2707-5397.
16. Patrick Ouma, E.E. Nyangeri, S.N. Osano (2021), ‘ Assessing Deployment of Science, Technology & Innovation in Catalysing Sustainable Water Services Provision in Nairobi City County, Kenya: Case of Soweto Kayole Jisomee Mita’, *IJISRT - International Journal of Innovative Science and Research Technology*. Volume 6 - 2021 - Issue 11 - November

1.9 POST-GRADUATE SUPERVISION**PhD Supervision – Ongoing - *Estimated Completion May 2023***

1. Macharia P.G. (UoN, 2020 to date) ‘An Evaluation of Road 2000 Strategy in Central Kenya’. University of Nairobi Admission Number – F80/56554/2020.

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2. Mosisa Michael Abera (UoN, 2020 to date) ‘A Study of Rutting and Flexible Pavement Options on Kisii - Migori A1 Road’. University of Nairobi Admission Number – F80/56859/2020.
3. Onesmus Kituku. (UoN, 2021 to date) ‘Evaluation and Improvement of Non-Motorized Transport Facilities and their Usage in Nairobi City – Outering Case Study’, - University of Nairobi Admission Number – F80/57979/2021.

MSc. Supervision – Completed

1. Okinyi S.A. (UoN, 2013 to 2018) ‘Pull Out Behaviour of Geosynthetics When Tested at Bench Scale’. University of Nairobi Admission Number - F56/69826/2013.
2. Macharia P.G. (UoN, 2016 to 2018) ‘Assessment of the applicability of Geosynthetics in Road Pavement Design and Construction in Kenya: A Cost-Saving approach’. University of Nairobi Admission Number – F56/82254/2015.

MSc. Completed since last proportion as Senior Lecturer

1. Onesmus Kituku. (UoN, 2017 to 2020) ‘Performance Evaluation of Pedestrian Facilities at Donholm Interchange along Outer Ring Road’. - University of Nairobi Admission Number – F56/7448/2017.
2. Amollo, O. K. (UoN, 2018 to 2021) ‘Implementation of Geographic Information System (GIS) in Road Asset Management in Kenya: A Case Study of Roads in Migori County’. University of Nairobi Admission Number - F56/11719/2018.
3. Obat, F. O. (UoN, 2015 to 2021) ‘Pedestrian Travel Speed: Case Study of Tom Mboya Street in Nairobi Kenya’. University of Nairobi Admission Number - F56/80906/2015.
4. Francis Gitau (UoN, 2011 to 2021) ‘Truck Parking Design: The case of Athi River Weighbridge’. University of Nairobi Admission Number - F56/71989/2011.
5. Muigai Abigail Wanjiru (UoN, 2018 to 2021) ‘Assessing Suitability of Paving Blocks for Construction of Non-Motorized Transport Facilities’. University of Nairobi Admission Number - F56/10855/2018

MSc. Supervision – Ongoing – *Estimated Completion May 2022*

1. Alphaxad Mwangi Githui (UoN, 2016 to date) ‘The use of recycled plastic materials for interlocking block road pavement construction in Kenya’.
2. Doreen Kiende Kirima (UoN, 2014 to date) ‘Flexible Pavement Performance on Reinforced Earth Sections along Outer Ring Road’. University of Nairobi Admission Number - F56/76654/2014
3. Rosebrenda Karimi Muchiga (UoN, 2019 to date) ‘An Investigation of Severe Cracking on Sections of Newly Constructed Garsen - Witu - Lamu Road’. University of Nairobi Admission Number - F56/35052/2019
4. Wilson Kipsang Kosgey (UoN, 2013 to ...) ‘Investigation of the Engineering Characteristics of Cinder Gravel as Road Pavement Construction Material in Meru County’. University of Nairobi Admission Number - F56/67919/2013
5. Wilson Musili Maluki (UoN, 2021 to) ‘Urban Traffic Emissions along Dagoretti Road’. University of Nairobi Admission Number - F56/34012/2019.
6. Kibet Terigin (UoN, 2021 to) ‘Pedestrian and Public Transport Facilities in Housing Developments in Nairobi, Kenya: A Case Study of Nyayo Highrise Estate’. F56/74534/2014.

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MSc. Thesis External Examination (Not Supervised)

1. Mwangi Eliafe Wilson (2017) Stabilization of silt clay soil using molasses for small dam embankment construction as inner zone.
2. Omimo Esther Emmy Owano (2017) Cold mix asphalt surfacing for light and medium traffic pavement.
3. Alladjo Rimbarngaye (2021) – Effects of Gum Arabic as Partial Replacement of Cement on the Structural Performance of Laterite Blocks – Pan African University – Institute for Basic Science, Technology and Innovation
4. Constance Mkambe Tunje (2021) – Structural Performance of Sisal Fiber Reinforced Bagasse Ash Concrete – Pan African University – Institute for Basic Science, Technology and Innovation

1.10 JOURNAL REVIEWER – HORIZON RESEARCH PUBLISHING, USA (HRPUB) ON BEHALF OF JOURNAL OF CIVIL ENGINEERING AND ARCHITECTURE

Journal Reviewer for Civil Engineering and Architecture (ISSN 2332-1121) since July 2021. It is an international open access, peer reviewed journal that publishes original and high-quality research papers. This journal is indexed by SCOPUS.

Reviewed Papers;**2021**

1. Sieve Analysis of Fine and Course Aggregates in Waste Metal Concrete
2. Development and Performance Assessment of Quaternary Blended Concrete Reinforced with Multi Walled Carbon Nano Tubes

1.11 CONFERENCE PRESENTATIONS

Period	Seminar
October 14 - 15, 2021	<p>1st Annual Road Safety Conference, hosted at the Department of Civil & Construction Engineering, University of Nairobi. Theme of the conference - Providing Safe Streets to all road Users</p> <p>Speakers: Eng. Dr. Osano Simpson, Director Generals of all Kenya Road Authorities, International Speakers, Dean - FoE Ayub, Gabriel Gitau, VC - UoN</p>
March 26, 2021	<p>Providing Safe Streets to All Road Users, hosted at the Department of Civil & Construction Engineering, University of Nairobi.</p> <p>Speakers: Eng. Dr. Osano Simpson, Celar Tolga, Eng. Nancy Abira, Alex Ayub, Gabriel Gitau</p>
23 rd March 2018	<p>Seminar: Organizers; Shanxi Dikuang Overseas Engineering Construction (Kenya) Ltd., Shanxi Dikuang Kenya Laboratories Ltd and Kenya China Economic and Trade Association</p> <p>The first Chinese Construction Project Information Exchange and Construction Knowledge Seminar</p> <p>Speakers: Eng. Dr. Osano Simpson and Dr. Isabella Njeri</p>

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3 rd -7 th November 2008	Seminar: Contract Management Seminar organized by IEK 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.
16 th October 2008	Topic: Construction Contract Claims Speaker: John S Mbaya
16 th November 2004	Topic: What does integration mean in today's transport policies, London Speaker: Prof. Stephen Glaister
2 nd December 2004	Topic: Flood Management and Flood Plain Development, London Speakers: Prof. Edward Evans and Prof. Colin Green

1.12 SPECIAL SKILLS

Leadership Skills - I have carried a great deal of responsibility as I have been ultimately in charge of the entire project's design and implementation, leading a diverse team of professionals, including surveyors, construction managers, technicians, contractors and Mechanical and Electrical professionals. This maintained the confidence with the Clients.

Critical Thinking - Confronted with complex problems, alternatives have to be presented to the clients, and the best solution picked. I was able to identify the most reasonable approach in dealing with them, as well as effectively and accurately assess the strengths and weaknesses of possible solutions. This included the ability to reason inductively and deductively, applying general rules to specific problems and combining many specific pieces of information to form broad conclusions.

Visualization - I possess the ability to imagine what something will look like when it's finished and visualize how complex components will come together.

Communication Skills - Because civil engineers interact with such a wide variety of professionals, my important skill is being able to communicate effectively with different types of people from a wide variety of backgrounds and expertise. I'm also a skilled "active listener," to get the full benefit from the ideas of others and communicate their own ideas both orally and in writing, often to those without a background in engineering. This can be demonstrated from the Engineering Reports that I have conducted for several clients.

Technical Skills - From my training, I possess advanced skills in mathematics and engineering. As project budgets and costs are an integral part of my responsibilities, I'm proficient in reading and interpreting financial spreadsheets. As I'm a lecturer in Geotechnical Engineering and Project Management, these skills have been enhanced through my continuous research in Civil Engineering, including construction methods and materials and soil analysis. I'm also skilled in working with blueprints, maps, drawings and models, as well as computer programs used in design and construction.

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Project Management / Change management - This is one of the areas that I lecturer in the University, and noting that I have managed complex projects, demonstrates that I possess this very important skill. I'm able to evaluate the work of others on the project and make sure they are in compliance with applicable laws, regulations and standards. At a project or initiative level i apply processes and tools to manage the people side of change from a current state to a new future state so that the desired results of the change (and expected return on investment) are achieved.

1.13 AFFILIATIONS

Membership in Professional Societies:

3. Engineer's Board of Kenya No. E431 (Consulting Engineer – 2019)
4. Engineer's Board of Kenya No. A2687 (Registered Engineer – 2012)
5. Corporate member, Institution of Engineers of Kenya, No. M4278 - 2012
6. Member, Road 2000 Programme, Kenya Roads Board

1.14 COMMUNITY SERVICE

1. Member, Board of Governors – Ibeno COG Secondary School, Kisii County – Since November 2021
2. Treasurer - Elimsprings Court Syokimau, Machakos County – Since September 2018
3. Member - Ibeno Fraternity (An organization that raises funds to help students with poor background to continue with their studies)

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1.15 RESEARCH / LECTURING EXPERIENCE

Year	Institution	Position	Description
Feb 2019 to date	Department of Civil & Construction Engineering, University of Nairobi	Chairman and Senior Lecturer	Duties include administering lectures to undergraduate and postgraduate students and conducting research in geotechnical and transportation Engineering together with Project Supervision in Geotechnical Engineering and Project Management Units
Feb 2013 to Feb 2019	Department of Civil & Construction Engineering, University of Nairobi	Lecturer	Duties include administering lectures to undergraduate and postgraduate students and conducting research in geotechnical and transportation Engineering together with Project Supervision in Geotechnical Engineering and Project Management Units
Feb 2010 to Feb 2013	Department of Civil & Construction Engineering, University of Nairobi	Tutorial Fellow	<ul style="list-style-type: none"> (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.

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1.16 PROFESSIONAL EXPERIENCE

Year	Location	Firm	Position	Description
June 2021– August 2021	Lake Turkana Wind Power Project	Lake Turkana Wind Power Company	Team Leader	<p>Consultancy Services for Geotechnical Assessment and Remedial Measures Recommendations for Failures in Foundation of Structures</p> <p>Duties:</p> <ul style="list-style-type: none"> Carrying out geotechnical investigations and preparing a geotechnical report and recommendations
December 2019 to January 2021	Supervision of Construction of Thika ByPass Road Project	Tosha Holding Ltd	Project Manager	Responsible for overall supervision of site operatives, attending site meeting, preparing monthly progress reports, preparing programme of works and implementing directives to control the works within budget and time;
March 2018 to December 2019	Maai Mahiu	Kenya Roads Board	Geotechnical Engineer	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 and April 2018
August 2018 to Date	Solai, Nakuru	Office of the DPP	Geotechnical Engineer	Solai Dam Failure Investigations

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March 2015	Nairobi	CPS Governance Centre Limited	Geotechnical Engineer	Geotechnical Investigation and Testing on Plot No. L.R. 209/6617/3 -
Dec. 2015 To Nov. 2016	Kakamega	Consultancy Services for Civil and Structural Design at Residential Site and Office Block One Acre Foundation, Kakamega	Team Leader	Consultancy Services for Civil and Structural Design at Residential Site and Office Block Duties: <ul style="list-style-type: none"> • Carrying out geotechnical investigations and preparing a geotechnical report for a total of 15 Acre piece of land • Carrying out civil and structural design • Carrying out supervision Works
Jan. 2015 Sept 2015	JKIA Interim Terminal	Design of JKIA Interim Terminal Civil Works Project, preparation of Drawings and Bills of Quantities including design of Water and Sewerage system to supplement the existing supply	Team Leader	Design of 2 parking lots, interconnecting roads, sewer line, storm water drain and general landscaping. The duties performed included <ol style="list-style-type: none"> 1. Civil and Structural design of the necessary structures 2. Production of structural drawings and Bar bending schedule at construction and tendering stage 3. Production of Bills of Quantities for tendering purposes. 4. Part of tender evaluation committee 5. Supervision of the implementation of the project. 6. Certification of the interim certificates as put out by the contractor 7. Advised the client on modern technological advancement that could adversely reduce the cost of the budget.
June. 2015 To Nov. 2015	Isiolo Airport	Design of Isiolo Airport Phase 2	Design Engineer	Design of 2 parking lots, extension of existing apron, a 3500 sq. foot office block, 14,000 sq. foot terminal, interconnecting roads, main access road to the airport, storm water drainage, storage tanks for storm water and general landscaping. The duties performed included <ol style="list-style-type: none"> 1. Civil and Structural design of all structures

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				<ol style="list-style-type: none"> 2. Production of structural drawings and Bar bending schedule at construction and tendering stage 3. Production of Bills of Quantities for tendering purposes. 4. Part of tender evaluation committee 5. Supervision of the implementation of the project. 6. Certification of the interim certificates as put out by the contractor 7. Advised the client on modern technological advancement that could adversely reduce the cost of the budget.
Jan. 2012 To Dec. 2012	Kavunyalalo Irrigation Scheme, Malindi	<p>Consultancy services for feasibility study to identify Investments for Kavunyalalo Dam, Irrigation and Drainage Project, Malindi involving Dam works.</p> <p>Enviroplan & Management Consultant, for National Irrigation Board (NIB)</p>	Senior Geotechnical Engineer	<p>Responsibilities:</p> <ul style="list-style-type: none"> • Responsible for design of intake works, sedimentation basin and canals. • River morphology studies • Dam and Irrigation design (abstraction works, water conveyance systems and distribution networks in field systems), project layout and profiles
June. 2011 To Nov. 2012	Hola Irrigation Scheme	<p>Project: Consultancy services for feasibility study to identify Investments for Hola Irrigation Scheme Phase 2.</p> <p>Client: Enviroplan & Management Consultant,</p>	Geotechnical Engineer	<p>Responsibilities:</p> <p>Responsible for detailed geotechnical investigations and foundation design for structures and abstraction point. Also responsible for slope stability assessment and measures to mitigate it.</p>

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		for National Irrigation Board (NIB)		
December 2013 - June 2014	Thwake	Thwake Dam project CAS consulting Engineers Ltd.	Geotechnical Consultant	<p>Main Duties:</p> <ol style="list-style-type: none"> 4. Review of geotechnical findings 5. Review of materials tests 6. Review and advice on geotechnical outcomes due to construction and supervisions. 7.
March 2016 – January 2017	Eastlands Nairobi	Rehabilitation of Eastlands Road – Baraka and Savannah Link Employer – Tosha Holdings Ltd	Project Manager	<p>Responsible for consultancy services to ensure work complies with contract provisions Contract Provisions Works involves rehabilitation of 3.1km by repairing of potholes and applying overlay of AC including drainage works for Savannah Link and Construction of new road into bitumen standard of 2.1Km for Baraka link. The major challenges include unmapped sewer lines crisscrossing the road alignment and requires realignment.</p>
January 2017 to Dec 2017	Mweiga - Brookside – Kimathi University	Construction of Mweiga - Brookside – Kimathi University D449/D450A Road Project Employer – Aegis Construction Ltd	Project Manager	<p>Responsible for consultancy services to ensure work complies with contract provisions Contract Provisions.</p> <p>Scope of Work</p> <p>Site clearance and top soil stripping; Earthworks, Construction of 350mm improved S1 Subgrade 1 of CBR of 2 - 5%; S2 Subgrade of CBR of 5 - 10%; Provision of Cement/Lime improved sub-base of minimum CBR of 60%, 175mm, extended to shoulders; Provision of Cement/Lime improved base of minimum CBR of 160%, 150mm; Provision of AC Type II as wearing course 35mm thick; Carriageway is 6m wide, with 0.5m wide shoulders; Construction of standard pipe culverts, box culverts, bridges and the improvement of other drainage and soil erosion protection works.</p>

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Jan 2012 – March 2016	Gigiri – Kabete	Gigiri – Kabete Water Improvement Project Employer: KSC International Limited	Site Agent	Responsible for design of foundations and selection of construction materials Works involved construction of DN700 rising main, 10Km long, installation of Pumps, Washouts, Airvalves and associated Works.
Jan 2008 – March 2010	Ngethu – Sasumua	Ngethu – Sasumua Water Production Improvement Project Employer: KSC International Limited	Site Agent	Responsible for design of foundations and selection of construction materials The Works comprised of the following of improvement of Inlet Works, comprising of new intake channel, enlargement of orifice to tunnel, and new screens, rehabilitation of DN1200 and DN1400 mains including air valves and washouts and the swabbing of the pipelines each 6.5km long, improvement of the inlet conditions at the water treatment plant, and rehabilitation of the Phase 1, 2 and 3 of the water treatment processes including sedimentation tanks and filtration units
Jan 2010 – March 2012	Ass. Project Manager	Rehabilitation and Widening of Voi – Mwatate (A23) single carriageway road Employer: KSC International Limited	Design Engineer	Responsible for design of pavement and selection of construction materials The main activities included; <ul style="list-style-type: none"> • Provision of facilities to the Supervising Engineers; • Maintenance of the existing road and accommodation of traffic through the works during construction; • Rehabilitation and widening of the existing pavement and shoulders as necessary to accommodate 7.0m wide carriageway and 2.0m wide shoulders on either side; • Rip-off the existing surface dressing layer to stockpile;

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				<ul style="list-style-type: none"> • Preparation and shaping of the existing base layer to serve as improved subgrade (Class S6); • Widening of carriageway by 400mm layer of S5 gravel in two layers as subgrade; • Construction of 125mm Cement improved (3% to 4%) gravel subbase; • Construction of 125mm DBM (0/40) in a single layer base; • Construction of Asphalt Concrete surfacing;
Jan 2010 – March 2012	Songwe Airport- Mbeya in Tanzania	Construction of Pavement at New Songwe Airport- Mbeya in Tanzania (Phase 2) Employer: KSC International Limited	Geotechnical Engineer	<p>Responsible for design of foundations and selection of construction materials</p> <p>Involved Pavement and Civil Works with DBM - Base 55,525m³, 100mm Asphalt Concrete 27,800m³, Sewerage and Water Supply Works, 2-Storey Terminal Building Works, Control Tower construction and associated works.</p>
Jan 2009 – March 2011	Kapsokwony-Kaptama-Kamukuywa Roads	Construction to Bitumen Standards of Kapsokwony-Kaptama-Kamukuywa Roads	Design Engineer	<p>Involved in design reviews and selection of construction materials</p> <p>The main activities to carried out:</p> <p>Construction of bitumen road with cement and lime stabilized sub-base and base of 30km road. Cut Volume – 750,000m³, Fill Volume 345,000m³.</p>
Jan 2008 – March 2009	Kisumu	Kisumu Water Supply and Sanitation Project	Design Engineer	<p>Involved in design reviews and selection of construction materials</p> <p>Works Involved rising main from Dunga Treatment Works to Kibuye Reservoir. Involved construction of collection tanks and pump house to rising mains to connect to gravity mains.</p>

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Jan 2014 – March 2016	Hola	Hola Irrigation Scheme Employer: KSC International Limited	Design Engineer	Involves design and build of Intake facility consisting of 10No. suction pumps. Involves also construction of rising mains, sedimentation basin, and canals to carry irrigation waters and associated concrete structures and drains. Key Item: Responsible for design of the intake system.
Jan 2016 – March 2017	Thogoto – Gikambura – Mutarakwa	Construction of Thogoto – Gikambura – Mutarakwa Rd Phase 1 Employer: KSC International Limited	Design Engineer	Involved in design reviews and selection of construction materials A bitumen standard road involving cement and lime stabilized sub-base and base. Road length was 33km of Bitumen Road, with Cement and Lime Stabilised Sub-base and base with earthworks, and double surface dressing and Drainage Works.

September 2018

1.17 COLLABORATIONS

1. Atlantic International University (AIU), USA
2. JKUAT – Examination Moderation
3. TUM – Examination Moderation
4. KeNHA – UoN Joint Research under Collaboration Agreement signed in January 2020

1.18 COMMUNITY ENGAGEMENTS

1. Chairman - Elimsprings Court, Syokimau Estate, (2016 to Date)
2. Member, Syokimau Resident Association (2016 to date)
3. Chairman, Ibeno Expatriates – Nairobi Chapter

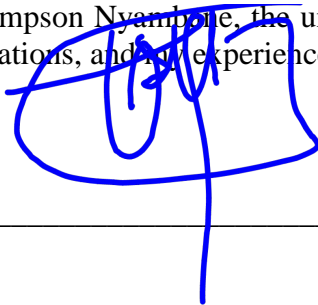
1.19 REFEREES

Eng. Prof. Sk Mwea, Professor, Dept. of Civil & Construction Engineering, University of Nairobi, P.O. Box 30197 – 00100, Nairobi. Mobile: 0722720435 Email: smwea@uonbi.ac.ke

Dr. Simeon Dulo, Senior Lecturer, Dept. of Civil & Construction Engineering, University of Nairobi, P.O. Box 30197 – 00100, Nairobi. Mobile: 0711524064, Email: sodulo@uonbi.ac.ke

CERTIFICATION:

I, Osano Simpson Nyambone, the undersigned, certify that these data correctly describe me, my qualifications, and my experience.

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Signature**1st December 2021**_____
Date