

Bio

Position:	Civil & Structural Engineer
Name of Current Employer:	Orkidstudio Limited
Name:	Esther Segero
Years of Experience:	6 Years
Nationality	Kenyan
Education:	2013 Moi University (B. Engineering Civil & Structural Hons.) 2019 Chartered Institute of Arbitrators(CI Arb) Construction Adjudication. Pursuing accreditation as a construction adjudicator.
Professional Accreditations	<ul style="list-style-type: none"> • Graduate Engineer – Kenya • Member of Institute of Engineers of Kenya IEK – Registration No. G6319 • Member of Engineers Board of Kenya EBK – Registration No. B10726
Key Qualification	<p>Over Six Years of Civil & Structural engineering and Construction Project Management experience, first working for the Ministry of Public Works-Nairobi in 2011 and China Wu Yi Limited in 2012 for a period of 3 months each as an Intern engineer, then moving on to JM Kariuki Consultants and Sinohydro Corporation Limited from 2013- mid 2019. I then joined Orkidstudio Limited.</p> <p>I have a good understanding of FIDIC Contracts, local and international engineering standards, codes and practices including but not limited to Kenyan Construction Standards, Eurocodes, British Standards and American Standards</p>
Project Management and Design Software tools	<ul style="list-style-type: none"> • MS Project • Autodesk Navisworks • Autodesk Revit, 2D, 3D & Robot
Detailed Tasks Assigned:	<ol style="list-style-type: none"> 1. Project management, planning and co-ordination 2. Project appraisals and assessment including preparation of IPC and Client expenses valuations. 3. Contract administration 4. Civil and Structural designs and design reviews 5. Material testing Inspection and Review

Employment Record

September 2019- To Date	<p>Orkidstudio Limited</p> <p>Orkidstudio is a Design and Build Company leading in sustainable bespoke design and construction</p> <p>Duties:</p> <ul style="list-style-type: none"> • Design of structural and civil works • Material research • Mentorship
Positions Held	<ol style="list-style-type: none"> 1. Civil & Structural Engineering

2018 to 2019

Sinohydro Corporation Limited

Lot 1 Upgrading of Kibwezi – Mutomo – Kitui – Kabati – Migwani Road (A9/B64) under EPC Turnkey Construction Contract, Contract No. KeNHA/1469/2016

The upgrading to bitumen standard of the Kibwezi-Mutomo-Kitui-Kabati-Migwani (A9/B64) Road is part of the Northern Corridor Transport Improvement Project. It will cater for traffic from Mombasa via Kibwezi to Moyale, through Northern Kenya and into Ethiopia on a friendlier direct alignment with less steep slopes while avoiding the need to pass through Nairobi.

The Government of the Republic of Kenya and the Contractor Messrs Sinohydro Corporation of China entered into a Commercial Contract for upgrading of the project road under an EPC/Turnkey Construction Contract at a Contract Price of **KShs. 18,404,888,139** to execute these works.

Positions Held

2. **Contract/Project Manager**
3. **Civil & Structural Engineer(Bridges)**
4. **Sub-contractor Supervisor**

Duties:

- Interpreting and review of contract documents on site.
- Communication liaison between the Contractor and the Employers' Representative Assistants.
- Coordinate quality control, safety and organization of sub-contractors
- Bridge Design engineer for the 12 bridges, drafting and detailing of as-built bridge drawing and construction bar bending schedules.
- Design engineer for civil works for the Class A road, Class D road, Town drainages and Access culverts.
- Confirming work measurements on site and record keeping of quantities.
- Coordinate design activities between staff, consultants, and clients.
- Identify and schedule cost variances.
- Participate in project decisions regarding technical approaches performance.
- Ensuring all project documentation and requirements are in place during construction.

2013 to 2018

JM Kariuki Consultants Limited

Positions Held

1. **Project Manager**
2. **Senior Engineer**
3. **Assistant Engineer**

In 2017 and 2018, I was mainly involved in project management, scheduling works, conceptual Client briefs, co-ordination and liaison with Clients and Project teams on deliveries and meetings, as well as Construction Supervision. I was also involved in the review of designs and detailed drawings carried out by assistant engineers and draftsmen.

Between 2013 and 2016, I was responsible for various stages of Design (concept, approval and construction) for projects, Production of Detailed Drawings, Project Management & Construction Supervision as team leader and as part of the design team.

Below is a list of the projects that I was directly involved in:
Factory & Warehousing:

1. Mars Wrigley Jr. Gum Manufacturing Factory, Athi River, Kenya.
My main role on the project was design project manager where I was tasked with co-ordination of 9 consultants during the design period. The project was designed by steel consultants from Egypt, Roof designer from Italy, Kenyan Architects, Kenyan quantity surveyors, American Equipment specialists, South African water experts, Kenyan Civil engineer, Kenyan landscape architects and Kenyan Interior designers. My task involved scheduling of works, keeping a delivery record, coordination of the designs carried out in 3D and briefing the clients on any design changes and the impact of the changes on time and money. During construction I was involved in certification of the works and construction supervision. The project is one of its kind in Africa and has achieved LEED Gold Rating as per the US Green Building Council LEED System for New Construction 2009. The site is approximately 50,000 sq. m. The project was awarded the 2nd Best Logistic/Industrial Development at the African Property Investment Awards. The project cost Ksh **7,000,000,000.00**
2. Lake Turkana Wind Power Project (Accommodations, Commercial, Workshops and Recreational facilities and Civil Works), Loiyangalani, Marsabit County. The wind farm provides 310MW of energy to the national grid. The project achieved LEED Gold rating. The civil works, accommodation and warehouses phase of the project cost Ksh **4,000,000,000.00**. The overall project cost was **Ksh 70,000,000,000.00**
3. Ministry of Transport & Infrastructure Air Accident Investigation Hangars at JKIA, Nairobi. I was involved in the project funded by the World Bank for an air accident unit as the assistant project manager and structural design engineer for the 100m span, 22m high barrel vault roof structure.
4. Industrial Warehouses for Warui Mwangi.
5. Norda Industries Warehouses, Athi River.
6. Dorman Coffee Factory, Ruiru, Nairobi.

Religious Centres:

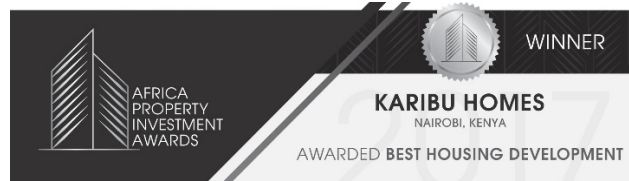
1. Museve Shrine, Kitui.
2. SDA Church, Karen, Nairobi
3. Parkland Baptist Church, Eastgate, Nairobi.

Health:

1. Bethany Kids Hospital, Kijabe Hospital.
2. Kijabe Hospital Doctors' Plaza
3. Kayi Cancer Centre, Nairobi.
4. Aga Khan University Hospital (Cancer Centre), Nairobi.

Residential:

1. Karibu Homes Residential Development, Athi River, Nairobi. The project was awarded best Housing Development during the African Property Investment Awards.
2. Taraji Heights, a mixed development in Ruaka for Cytonn Investment.
3. Residential Home for Mr & Mrs. Mugambi, Runda, Nairobi.
4. Residential Home for Miss Fiona, Kitusuru, Nairobi.
5. Nairobi County Housing:
 - o Urban Renewal Jevanjee Housing 1200 residential Units on 6 acres – Ngara, Nairobi
 - o Urban Renewal Old Ngara Housing: 900 mixed Use Residential Units on 3 acres, Ngara, Nairobi
6. Mombasa County Housing:
 - o Urban Renewal Mzizima Housing 900 residential Units – Mzizima, Mombasa



Civil Works

1. 2.5 km of roads with Cabro finish in Ruiru for a proposed warehouses and factories area.

Bridges

1. Marsabit-Merille Bridges
2. Nsongi and Ruzairwe Bridges(Uganda)
3. Mpondwe Bridge (Uganda)
4. Kibwezi Kitui Ag/B64 Roaad Bridges (12 bridges)

June-August
2012

China Wu Yi Company Limited Kenya
Proposed Development in Upper-Hill Nairobi for KCB Headquarters

Position Held

Structural Engineering Intern

1. Determination of building positions by Carrying out survey.
2. Provision of assistance to the laboratory technicians in undertaking material te
3. Participation in site progress and technical meetings.
4. Preparation of site meeting minutes, filling of reports and attendance sheets.

June – August
2011

Ministry of Public Works Headquarters – Upper-Hill Nairobi.
Structural Department

Position Held

Structural Engineering Intern

- 1.Participation in site progress and technical meetings. Taking minutes durir inspections.
2. Design of structural elements such as beams, columns and slabs.
3. Filing of engineering documents.

June-August
2010

Moi University
Workshop Practice

Basic workshop skill which included tool handling and machine operation.

CURRICULUM VITAE (CV) – ESTHER SEGERO

Other skill learnt included foundry, arc and gas welding, machining, carpentry, electrical installations and masonry which form the basics of construction.

Academic Experience

2013 to date

1. Research Contributor to 1st Mount Kenya University International Interdisciplinary Research Conference (2013). Presented and Published a paper on Sustainable Development- Use of diatomite as a partial replacement on Concrete Mixes to Conserve River Sand
2. Alma mater of the Young African Leadership Initiative (YALI), Nairobi, East Africa.(2018).

References

Eng. Barbage Ntabo
Engineer Apec Consultants Kenya limited
Tel:0725485976

Eng. Stephen Kioko
KENGEN
Tel: 0721323740

Hassan Mohammed
White Lotus/Jabavu Limited
Tel: 0710752438

Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.

Esther Segero

[Signature]

3/10/2019

[Day/Month/Year]

Full Name: Esther Segero
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