

# CURRICULUM VITAE – LATOYA OUNA

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<b>POSITION</b>	<b>MANAGING DIRECTOR</b>
<b>Date of Birth:</b>	July 11 <sup>th</sup> 1987
<b>Address:</b>	101176-00100
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<b>Years of Experience</b>	8 years

**Bsc CIVIL AND CONSTRUCTION ENGINEERING (HONOURS) MIEK, MSC Con. Law**

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## PROFESSIONAL QUALIFICATIONS

Registered Professional Engineer with the Engineers Board of Kenya (EBK) – B7021  
Member with the Institute of Engineers of Kenya (IEK) – M6536  
Member of the Adjudication Society, UK  
Member of Society of Construction Law, UK

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## KEY QUALIFICATIONS AND COMPETENCIES

- Experience in Structural design of building and infrastructure projects using relevant Structural Engineering design software: STAAD, AUTODESK ROBOT, STRAP, MIDAS GEN, CSC ORION
- Project management and construction supervision of residential, large multi-use commercial buildings and infrastructure projects, promoting the highest standards of safety on-site at all times.
- Design of dry mortar and plaster packaged products in accordance with EN 998-1& 2
- Party Representative in Adjudication, Arbitration or Mediation proceedings.
- Establishing liability and prosecuting or defending claims for extensions of time and loss and/or expense
- Establishing liability and quantum for defects, variations, changes and other matters under the contract.
- Forensic Analyses of Interim Applications and Final Accounts
- Negotiating on any matters in dispute prior to third party intervention
- In-depth knowledge of the FIDIC, JCT – (UK), NEC 3 (UK), JBC (Kenyan), Public Procurement and Asset Disposal act of 2015
- Draft, review, advise and negotiate on contract terms prior to entering into the contract.
- Advice on dispute avoidance measures
- Knowledge of the European Union procurement laws
- Knowledge of application of construction disputes in England and Wales common law and statutes such as the Housing Grants, Construction and Regeneration Act 1996 (as amended by

the Local Democracy, Economic Development and Construction Act 2009) and the associated Scheme for Construction Contracts 1998 (as amended 2011)

- Capability of effective reply and analysis to Requests for Proposals (RFP) and Expression of Interest (EOI) documents.
- Knowledgeable in BIM processes under AUTODESK Products such as REVIT Structures, ROBOT and Navisworks
- Knowledge of Eurocode and British Standard Codes for structural design
- Sourcing of building materials locally and internationally.
- Excellent presentation skills

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## **ACHIEVEMENTS:**

Awarded by the Society for Construction Law (SCL) for the best M.Sc. dissertation for 2018-19.

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## **DETAILED EXPERIENCE**

### **Handisi Systems LTD**

**Period** September 2016– Present

**Title** Director/Structural Engineer

1. Proposed 5km road in Samburu County

Client: Samburu County

Nature of work: The project included the design and construction of a 5km all weathered road from a resort to the main road. The road was to be in use all year round by visitors accessing the resort.

#### **Detailed Tasks**

- i. Project Management
  - ii. Project supervision and contract management
  - iii. Road Survey and setting out
  - iv. Construction of the road to motor able standards
  - v. Design of crossing structures such as bridges and culverts
2. Proposed Airstrip in Samburu County

**Client:** Samburu County

**Nature of work:** The project included the design and construction of a 1.5km all weathered airstrip and outpost for the county. The airstrip was to be in use all year round by visitors accessing the resort by air.

**Detailed Tasks:**

- i. Project Management
  - ii. Project supervision and contract management
  - iii. Airstrip Survey and setting out
  - iv. Construction of the all-weather airstrip
  - v. Design and construction of the out post
3. Renovation of Residential houses, Office blocks and restaurants in Ongata Rongai, Maanzoni - Machakos County, Buru Buru - Nairobi County, Langata – Nairobi County

**Client:** Various private clients

**Nature of work:** the projects mainly focused on renovation of private homes, fitting out offices, and restaurants. Our aim was to upgrade the buildings from the old condition and provide the new buildings with a modern feel at the most affordable cost to the client

**Detailed Tasks**

- i. Cost management of the projects.
  - ii. Sourcing of building materials internationally for clients and liaising with local manufacturers
  - iii. Project management
  - iv. Structural Engineering support
  - v. Ensure strict adherence to all local and international regulations, statutes, building codes and registrations such as County Councils, NEMA, WARMA and NCA.
4. Structural design and Construction Supervision of the Alps Hotel Nakuru. County
- Client:** Milimani Guest House, Nakuru

**Nature of work:** The project initially included the structural audit and rectification of defects in the construction. It was discovered that the current columns could not handle the weight of the building. A full design of the building was done putting in mind the new loading and the need for columns that can withstand more loading.

The client also wanted design and site supervision of Phase 2 of the project, which included a kitchen, dining and conference area. In addition, I designed and supervised the swimming pool; reception, car park and walkways, underground water storage and water treatment. My roles included:

- i. Detailed structural design using PROKON and AUTODESK REVIT
  - ii. Bi-weekly site supervision
5. Structural audit of Gelian Hotel Machakos County

**Client:** Gelian Investments LTD

**Nature of work:** My roles included:

- i. Clarifying the quantities of steel as indicated in the contractor's and structural engineer's bending schedules
- ii. Carrying out Non-destructive tests on the columns and beams of the hotel to certify that they correspond with the quantities in the drawings
- iii. Carry out Non-destructive tests to determine the concrete class of the concrete.
- iv. Liaise with the Client (Gelian Investments) during the correspondence between the consultants, contractor and the client.
- v. Verify quantity surveyor's valuations and assist in preparation of the final account.
- vi. Advise the client on contractual recourse when dealing with contractor's claims touching on variations, extension of time and Liquidated and Ascertained Damages.

### **Gibb International Ltd**

**Period** October 2014 to August 2016

**Title** Senior Graduate Structural Engineer

- 1. Proposed AVIC International Africa Headquarters

**Client:** AVIC International

**Nature of Work:** The project included four 30 storey residential blocks, a 35-storey hotel block and a 42-storey office block. Construction is projected to start in June 2016. I was involved in:

- i. Design review of the residential blocks. I ensured that the drawings, designs and details conform to local standards and regulations.
  - ii. Supervision of the excavation of the structures.
2. Preliminary and Detailed Design of Footbridges and Bus Rapid Transport (BRT) Stations for the Enhancement of A104 from JKIA Airport to Likoni Road.

**Client:** Kenya National Highways Authority (KENHA)

**Nature of work:**

- i. Steel and concrete design of a helical footbridge spanning 30 meters with a composite deck. The ramps and staircase was reinforced concrete. The analysis was done using several software such as STAAD, STRAP and PROKON
- ii. Presentation of Preliminary and Draft Final design to stakeholders (road users) and financiers (World Bank and Government of Kenya) of the project for approval.
- iii. Preparation of Preliminary, Draft Final and Final structural report to the client.
- iv. Preparation and review of technical standards to be used in the bid document.
- v. Preparation of Request for proposal for consultancy services for the design review and construction supervision of the project.

**Gibb International Ltd**

**Period** June 2013 to September 2014

**Title** Graduate Structural Engineer

**Nature of Work:**

1. Detailed design of Proposed Lang'ata Shopping Centre, Apartments and Commercial Centre. The Proposed Shopping Centre and Apartments included two blocks of 2 bedroom apartments, 3 blocks of 3 bedroom apartments and one block of 3 bedroom plus DSQ apartments, all of which were seven stories high. The development also included a four storey commercial centre with a supermarket and shops to serve the area.

**Client:** Lap trust Kenya LTD

**Detailed Tasks assigned:**

- i. Detailed Structural design of the apartment blocks and commercial centre.
- ii. Co-ordinate with CAD technicians to reproduce site drawings.
- iii. Construction supervision of two, three and four bedroom apartment blocks.
- iv. Contract management for the apartment blocks.
2. Design of 12 meter lattice pole self supporting communication tower at Kibish in Turkana County.

**Client:** Ministry of Land Housing and Urban Development – Public Works Directorate

**Detailed tasks:** Design for steel members and concrete foundation for the lattice tower that should carry a VSAT Satellite and other communication equipment.

3. Design of Keroka Town water treatment plant for the water supply and sanitation project for Kericho, Keroka and Isebania towns.

**Client:** Lake Victoria South Water Services Board

**Detailed Task assigned:**

- i. Structural Design of water supply and sanitation treatment structures. These included the raw water intake, the water treatment plant and Operation office buildings.
  - ii. Design of Sludge stabilization shed which was a 20m span portal frame to be used for the drying of sludge in the waste treatment process.
4. Design of Septic tanks for the One Stop Border Post project in Namanga border.

**Client:** East African Community and JICA

**Detailed task assigned:** Structural Design of Septic tank for the accommodation building and office blocks. Both vary in size and capacity.

5. Design of parking area at Unilever Kenya industrial area. This involved design of new car and Bus Park for Unilever staff and customers.

**Client:** Unilever Kenya LTD

**Detailed Task Assigned:**

- Design of a car park for Unilever staff and a Truck parking for the Unilever suppliers and distributors to conform to the highest standard of Health, Safety, Environment and Quality of the company.
6. Rehabilitation of Mwembe Tayari Health Clinic Mombasa.

**Client:** County Government of Mombasa

**Detailed Task Assigned:**

- i. Design of a new steel roof and frame system at the hospital.
- ii. Design of the new parking shed and waiting area.
- iii. Co-ordinate with CAD technicians to reproduce site drawings

**Ochieng Abuodha and Associates Ltd**

**Period** June 2011 to May 2013

**Title** Graduate Civil Engineer

**Nature of Work:**

1. Detailed design and supervision of the current Kenya Polytechnic University College Block S that is currently under construction. For the entire period was the assistant Civil and Structural Engineer of the project working under the Structural Engineer.

**Detailed Tasks Assigned:**

- i. Detailed design of the 10 floor block that includes classrooms, laboratories and offices using Computer Aided Design software.
  - ii. Supervision of the construction of the block in close liaison with the contractor.
  - iii. Attending site meetings.
2. Detailed design and supervision of the Kenya Military Academy Lanet Phase 2 – Accommodation Block. I was the assistant Civil and Structural Engineer of the project working under the Structural Engineer.

**Responsibilities:**

- i. Detailed design of the kitchen area using Computer Aided Design software.
  - ii. Construction supervision of the kitchen area and Accommodation Block
  - iii. Working with other consultants such as the surveyor and the Mechanical Engineer on establishing an efficient water rectification system for the Kitchen and Accommodation area.
  - iv. Supervision of Civil Works such as roads and Parking Area Paving and drainage.
  - v. Attend site meetings and contract management.
3. Detailed design of the Proposed Hotel, Apartments and Commercial Development in Kisumu. I was the assistant Civil and Structural Engineer of the project working under the Structural Engineer.
4. Detailed Design and Supervision of various residential buildings in the city.
5. Preparation of tender documents for the detailed and design and supervision of various roads in the country.

**Detailed Tasks Assigned:**

- i. Visit various roads to gather information necessary for the tender document preparation.
  - ii. Attend pre-tender site visits.
  - iii. Attend the opening of the tender documents.
6. Supervision of the digging of trial pits along the Ikonge - Roret – Kabianga Road in Buret Constituency, whereby the soil samples were to be taken for testing for the construction of the road under Magwagwa Dam Project.
7. Assistant Engineer for the construction supervision of Thua Bridge along C96 Chuluni – Mwitika road under Kenya National Highways (KeNHA)

**Detailed Tasks Assigned:**

- i. Writing minutes of site meetings.
- ii. Formal correspondence between the contractor, Resident Engineer and Project Director.
- iii. Compile weekly, monthly and quarterly reports about the progress and any matters arising.
- iv. Analyze and redesign any variations in the design.

### **Ongata Works Limited**

**Period** August 20, 2010 to October 31, 2010.  
**Title** Intern

Ongata Works Limited is a local construction company in charge of implementing various construction projects in the country

#### **Nature of Work:**

I was attached to Ongata Works for the construction of Bamburi Special Products plant in Marimbeti. I was reporting to the project Engineers and site agent.

#### **Detailed Tasks Assigned:**

- i. Preparation of the weekly work schedule of works for the site.
- ii. Identifying safety issues at the site and applying mitigation measures.
- iii. Preparation of the general program of works.
- iv. Ensuring adherence to safety rules by everyone on site.
- v. Setting out of various features at the site.
- vi. Taking of levels of different structures.
- vii. Supervision of employees on the site.
- viii. Reporting work progress to the site agent.
- ix. Interpretation of engineering drawings.
- x. Preparation of a financial appraisal.

### **Otieno Odongo and Partners Consulting Engineers Nairobi**

**Period** September 4, to October 17, 2008  
**Title:** Intern

#### **Nature of work:**

I was attached to Otieno Odongo and Partners as an intern, reporting to the Water Engineer

#### **Detailed Tasks Assigned:**

- i. Use of AUTO-CAD and most of the commands related to the program.
- ii. Writing of Technical Proposals in response to Requests for Proposals.
- iii. Practical basics of road construction; this was the general layers and sections of the road, the materials used to construct each layer and the strength required for each layer.



- iv. Calculation and determination of vertical alignment as used in surveying.
- v. Calculation of the awarding of tenders.
- vi. Collection of data in a pre-feasibility study and how to implement it in the technical proposal.
- vii. Necessitating the building of dams in areas where there is scarcity of water.

**Bamburi Cement Limited (NGP Plant) Nairobi and Mombasa**

**Period** June 22 to August 31, 2007

**Title:** Intern

**Nature of the work:**

Carrying out testing and market research of Bamburi Plasta Plus cement in Nairobi and Mombasa

**Detailed Tasks Assigned:**

- Testing and market research for Plasta Plus, Bamburi Cement manufactured in Nairobi and Mombasa.
- Presenting the Plasta Plus Cement to building and Construction stakeholders
- Presented the idea to Bamburi Cement LTD and Bamburi Special products. This included researching and writing reports on the production of concrete sleepers and presenting it to stakeholders in Bamburi Cement LTD.

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**EDUCATION**

**2006-2011**

Bachelor of Science Civil Engineering (Honours)

University of Nairobi

**2016 – 2019**

MSC Construction Law and Dispute Resolution (Merits)

University of Central Lancashire, UK

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**LANGUAGES**

English, Swahili –Fluent (written and spoken)

French –Intermediate

Mandarin – Beginner

**Interests:** Mentorship, Travelling, learning about new cultures, Writing, Reading Books, Swimming