

Kenneth Mburung'a Mugambi

Civil/Structural Engineer

Atkins Consulting Engineers Ltd- Kenya



Profile

Kenneth Mugambi is a Registered Graduate Engineer with over 12 years professional experience covering Building and Civil Engineering projects.

He has vast experience in design and supervision of civil engineering, buildings and industrial projects. His key responsibilities include:

- Structural/Civil engineering design.
- Preparation of drawings, specifications and tender documents.
- Supervision of construction works.
- Project plan tracking, reporting and contract administration.
- Peer review of civil and structural designs.

Key experience

- Contract Management and Administration
- Structural Modelling and design
- Technical Audit
- Structural integrity assessments
- Tender documentation and Administration
- Construction supervision
- Environmental impact assessment and Environmental Audit.

Profession

Civil Engineering

Joined Atkins

2013

Nationality / Languages

Kenyan/English, Swahili

Qualifications

BSc, Civil Engineering
MA, Project Planning and Implementation ongoing.

Professional associations

- Registered Graduate Engineer – Engineers Board of Kenya - 2011
- Member – Institution of Engineers of Kenya -2011.
- Member- Environment Institute of Kenya.
- Registered Associate Expert-National Environment Management Authority- Kenya.

Experience with HH-Atkins (2013 – Present)

Olkaria 1 Additional Unit 6 Power Development Project, January 2019 to present.

The project involves design of roads, drainage systems, water distribution system, various structures such as the powerplant, cooling tower, steam scrubber foundations, pipe rack foundations, chemical building, elevated water tank, transformer blast walls, foundations of various equipment, septic tanks, oil separator etc.

Structural Engineer. Activities undertaken include:

- Review of structural calculations produced by others
- Carrying out designs of various structural components of the project
- Carrying out review of site environment and operating conditions of various structures and putting together project structural design criteria durability requirements to Eurocode standards.
- Reviewing construction drawings before they are issued to site.

Tilisi Mixed Development Project in Limuru- Kenya. 2017, to December 2019.

The project involves provision of infrastructure such as roads, water, electricity, ICT and waste water treatment to an upcoming mixed-use development on 400 acres.

Assistant Resident Engineer. Roles Include:

- Involved in day to day construction supervision and quality control of an asphalt road, sewer, water supply, wastewater treatment, drainage, ICT and Electrical infrastructure.
- Reporting.
- Supporting the Resident Engineer in contract management of Construction activities by contractor.
- Supporting the Resident Engineer in routine review of contract correspondences.
- Involved in progress review and program management of construction activities.

Some of the other key projects I have been involved in (and the respective scope of services) during this period include:

City Lodge Hotel -Two Rivers: Kenya. April 2016 to November 2016

The project involved construction of a 172-room hotel and all the involved site access roads, storm and foul drainage works and water supply.

Site Engineer. Activities included;

- Quality Assurance and Quality checks on the structural and civil works of the project;
- Reporting
- Checking of Contractors plant, equipment and resources during construction. Review of Contractors method statement and quality assurance documentation
- Day to day supervision of construction works.
- Measurement of works and checking contractor's payment certificates and claims.
- Ensured the contractor adhered to occupational Health, Safety and Environmental standards as per the contract.

Proposed Wrigley Greenfield Gum Facility in Mavoko, Machakos: Kenya. November 2015 to March 2016.

The Project comprised design review, construction, completion and commissioning of a gum manufacturing facility on a vacant plot of land totalling 20 acres in Mavoko, Machakos County.

Civil/Structural engineer. Roles performed included:

- Peer review of drawings and structural design calculations produced by others.
- Day to day site supervision of both civil and structural works.
- Ensured the contractor adhered to occupational Health, Safety and Environmental standards as per the contract.

Proposed hotel development on plot L.R. NO. 209/2466, Nairobi, Kenya. August 2014 to June 2016.

The project is a 10-story hotel development offering accommodation, conference facilities, bar, gym and a coffee shop. It has a basement and semi basement which are used as shops. It is located in Nairobi city centre between Biashara Street and Tubman road. The project value is 4,000,000 USD (Approximately Kshs.400 million).

Civil/Structural Engineer responsible for,

- Carrying out structural and civil designs and producing drawings for site use by the contractor.
- Reviewing structural designs and drawings done by others for all structures to be installed in the building, and not designed by us.
- Carrying out site inspections at the request of the contractor before each concrete pour to check reinforcement, formwork, dimensions, slopes, line and level, cleanliness and ensure they conform to the approved construction drawings and specifications.
- Examination, and where appropriate, testing of materials and workmanship to ensure they comply with the specifications.

Two Rivers Retail, Entertainment and Leisure Mall and Offices Development along Limuru Road, near Runda Estate, Nairobi, Kenya. August 2014 to December 2015.

CV

The project consists of a five-storey building with an extensive shopping mall with a combined floor area of approximately 60,000m² and two office block towers which start at the roof of the mall with a combined floor area of approximately 27,000m².

Structural Engineer responsible for:

- Carrying out structural designs and producing drawings for site use by the contractor.
- Examination, and where appropriate, testing of materials, keeping a record of material test reports and workmanship to ensure they comply with the specifications
- Carrying out site inspections and preparing snag reports capturing deviations of the completed works from the approved specifications, and ensuring corrections are done on the completed works to comply with project specifications.

Olkaria IV and Olkaria 1 Additional units Geothermal power Project in Naivasha, Kenya. March 2014 to August 2014.

The project involved construction of two Geothermal power plants each with a production capacity of 70MW. (Total 140MW)

Civil Engineer: Activities carried out.

- Review of detailed designs and construction drawings for roads, foul water, storm water and other civil infrastructural components of the project submitted by the contractor (it was an EPC contract) against specifications and agreed upon design standards.
- Day to day supervision of civil and structural works during construction, including quality control on materials and workmanship.
- Program tracking and preparation of progress reports

Safaricom digital city Project, Nairobi, Kenya. May 2013 to Feb 2014

The project involved Laying of fiber optic cables in Nairobi.

Site Engineer. Involved in;

- Supervision of trenching, micro-tunneling and laying of cables, backfilling and reinstatement.
- Coordination with other service providers for service relocation where necessary
- Proposed remedial/reinstatement works and oversaw their implementation.
- Tracking and Reporting on progress.
- Ensuring the contractor adhered to occupational Health, Safety and Environmental standards as per the contract.

Experience with Essar Telecom Kenya Limited. (2008-2012 – Infrastructure Engineer)

The assignment involved roll out of GSM sites all over the country.

Infrastructure Engineer.

- Carried out designs, Prepared drawings, specifications and tender documents.
- Carried out review of drawings, technical reports and calculations produced by others.
- Involved in day to day supervision of sites, quality control of both material and workmanship.
- Tracked projects programs and prepared progress reports.
- Involved in technical evaluation of tenders.
- Reviewed project closure documentation including as built drawings submitted by the contractors.
- Carried out structural audits an existing infrastructure and produced technical audit reports.

Experience with Biselex Kenya Limited. (2007-2008 – Civil Engineer)

Ulungu water supply project, Kitui, Kenya. July 2007 to December 2007

The project involved construction of a 50m³ elevated steel tank on a 24m steel tower, equipping one number borehole and laying of a 5km water pipeline

Site Agent: Activities performed

- Day to day site supervision.
- Reporting.
- Procurement of construction material.

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CV

- Tender administration.
- Quality control and quality assurance.

Kalawa water supply project, Mwingi, Kenya. January 2008 to April 2008

The project involved Construction of a 50m³ masonry water tank, equipping one number borehole and laying of a 1.5km water pipeline.

Site Agent: Activities performed

- Day to day site supervision.
- Reporting.
- Procurement of construction material.
- Tender administration.
- Quality control and quality assurance

Other Trainings

- Conversant with MS-office applications and specialized software such as Revit, Robot, Prokon, CADS RC, AutoCAD, MS Project, RCC structural Spreadsheets and currently training on ETABS and Civil 3D.
- November 2011: Environmental Impact Assessment and Environmental Audit course at the Kenya School of Government in Kabete.