

WELLINGTON GATHOBIA NDEGWA

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Dynamic, self-motivated, reliable, dependable, and responsible civil engineer with 27 years' experience in managing infrastructure and service delivery aligned with business objectives. Proven expertise in water supply and sanitation projects, including overseeing projects valued at over Ksh 5B. A robust background in design and construction supervision within the civil engineering sector, consistently driving projects to successful completion. A value-driven person who is adaptable to all kind of work challenges, work well both in a team environment and using own initiatives, and strictly adhere to set project's timelines. A dedicated, organized and methodical person, has good interpersonal skills, an excellent team worker, apply dynamic approach to work and get things done. A determined and decisive person who identifies and develops opportunities. Seeking to leverage unique skills and substantial project management experience to contribute effectively to future initiatives.

A) WORK EXPERIENCE

i) SUMMARY OF WORK EXPERIENCE

- Sound understanding of water and waste water engineering design and project management.
- Supervise and support the work of others and mentor junior level engineering and design/drafting staff.
- Deliver water related engineering design and technical projects working collaboratively with other disciplines across a range of sectors.
- Assume responsibility for management of technical standards, processes and documentation, project scheduling and meeting timeframes and project budgets
- Assist in training and mentoring of graduates
- Prepare engineering specifications, data sheets, sketches, drawings and perform calculations in support of engineering activities
- Versed in use of hydrologic and Hydraulic Modelling Software such as AutoCAD, GIS, and Civil 3D and MS Project Professional software for project management.

ii) SUMMARY OF ACHIEVEMENTS.

- Laying of water transmission and distribution pipelines and sewerage pipelines of assorted diameters in Nairobi city.

- Laying of new water and sewerage infrastructure along major roads in Nairobi city to facilitate their expansion.
- Construction of access roads and drainage facilities for access roads to water and sewage treatment plants in Nairobi.
- Laying of sewerage extension pipelines for Isiolo town,
- Rehabilitation of Isiolo waste water stabilization ponds.
- Laying of water extension pipelines for Isiolo town.
- Laying of sewerage extension pipelines for Garissa town.
- Rehabilitation of waste water stabilization ponds for Garissa town.
- Laying of portable water extension pipelines for Garissa town
- Construction of conventional water treatment plant for Mandera town water project.
- Construction of waste water stabilization ponds system for Mandera town sewerage project.
- Construction of access roads to water and sewage treatment plants in Mandera town.
- Construction of residential houses and stores for Mandera town water and sewerage projects
- Construction of reinforced concrete and elevated steel water tanks for Mandera water supply project.
- Construction of large diameter infiltration wells for Mandera water supply.
- Laying of water and sewerage pipelines of assorted diameters in Mandera town.

iii) **DETAILED WORK EXPERIENCE**

i) 2024- To date: [Technical director - Multi-D Engineering Services*Kitengela, Kenya.](#)

- Overseeing all technical operations, infrastructure and service delivery to align with business goals.

ii) 2019 – 2023: [Design Engineer and Resident Engineer.- Runji Consulting Group* Nairobi* Kenya](#)

a) **Design Engineer**

Conducted feasibility studies, design of river intakes and shallow wells along river Daua, design of water transmission and distribution pipelines, design of water storage tanks; Ground RC and elevated steel tanks, sewage collection and conveyance systems and wastewater stabilization ponds.

b) **Resident Engineer.**

- Led design and construction supervision of Mandera town water and sewerage projects.

Key milestones: construction of infiltration wells, laying of raw pumping water pipeline and treated water pumping pipeline, construction of water treatment plant, water storage tanks ; elevated steel tanks and ground RC tanks, administered installation of customer water connections, construction of water pumping stations, construction of waste water stabilization ponds, laying of outfall sewer line, construction of administration offices and staff houses, and laying of sewerage collection and transmission pipelines; trunk lines, primary and secondary pipelines.

- Oversaw implementation Garissa town water and sewerage projects: Project value – Ksh 800M. Key milestones: Construction of water pumping station, augmenting intake works, laying of raw water pipeline, rehabilitation of water treatment plant, and construction of water storage tanks; ground RC and elevated steel tanks.
- Oversaw implementation of Isiolo town water and sewerage projects. Project value – 600M Key milestones: expansion of water reticulation system, extension of sewerage pipelines and rehabilitation of sewage treatment plant.
- Led design and construction supervision of Gatundu water and sewerage projects. Key milestones: construction of river intake, laying of gravity raw water and treated water pipelines, construction of 3 water treatment plants, construction of water storage tanks ; elevated steel tanks and ground RC tanks, construction of water pumping stations, administered installation of customer water connections, construction of waste water stabilization ponds, laying of sewerage collection and transmission pipelines; trunk lines, primary and secondary pipelines. laying of outfall sewer line and construction of administration offices and staff houses.

iii) 2006-2018 Planning, design and construction Engineer- Nairobi City Water and Sewerage Company.

- Design of Marura-Gitathuru sewerage system
- Design and supervision laying of the new Thika road, Ngong road, Mombasa Road and Western ring road, Southern bypass, and red hill road water and sewerage infrastructure.
- Design and supervision of Ngethu water treatment works' staff houses sewer reticulation and wetland.
- Design and supervision of Thindigua Estate water reticulation system
- Design and supervision of Lower Gituamba –Ruai reticulation project
- Design and supervision of Water improvement projects within different informal settlements and peri-urban areas
- Design and supervision of the Kamiti road Relief sewer line.

- Design and supervision of the Nairobi Eastern water transmission pipeline from Kiambu tank to Embakasi terminal tank
- Design and supervision of Nairobi Western water transmission pipeline from Kabete water treatment plant to Karen Shopping centre
- Design and supervision of raw water pipeline from Mataara to Ngethu treatment p
- Design and supervision of treated water pipeline from Ngethu water treatment plant to Kiambu tank in Nairobi
- Design and supervision of water transmission pipeline from Kabete water treatment plant to Mombasa Road to improve water supply along Mombasa Road corridor, south C and Embakasi areas.

iv) 2003 -2006: Engineer II : National Water, Conservation and Pipeline Corporation.

- Coordinated operation and maintenance activities of water supply systems, designed of water extension pipelines and general management of water supply services.

v) 1998- 2002: Hydrologist II: Ministry of Water and Irrigation* Nairobi* Kenya.

- Collected hydrological data and prepared monthly, quarterly, and annual reports, systematically filling data on river flows and rainfall patterns.

vi) 1997-1998: Site Engineer: Foundation Engineering Services* Nairobi* Kenya.

- Oversaw construction of piles for NSSF building along Muindi Bingu street in Nairobi.

B) EDUCATION

i) 2023- 2025- Advanced Master's Degree in Water and Urban Waste Services Engineering.

Tech Global University* Spain

- “Sobresaliente” ; Distinction (grade 9.09)

ii) 2023- 2024- Professional Master's Degree in geotechnical and Foundation Engineering

Tech Global University* Spain

- “Sobresaliente” ; Distinction (grade 9.35)

iii) 2021- 2023- Master's Degree in construction Engineering Management

University of East London *United Kingdom.

- Merit (61%)
- iv) 2022- 2023-Executive MBA - Project Management option.
[Guglielmo Marconi University* Italy](#)
- “Cum Laude”; Distinction (Grade 110/110).
- v) 2024- Postgraduate Diploma in Design of New Materials and Innovations in Engineering and Construction.
[Tech Global University* Spain](#)
- “Sobresaliente”; Distinction (grade 9.40)
- vi) 2024- Postgraduate Diploma in Environmental Engineering
[Tech Global University* Spain](#)
- “Sobresaliente”; Distinction (grade 9.51)
- vii) 2023- Postgraduate Advanced Diploma in Project Management
[Cambridge International qualifications Ltd* United Kingdom](#)
- Distinction (73%)
- viii) 1991-1996 Bachelors Degree in Civil Engineering.
[University of Nairobi* Kenya](#)
- “Honors” -Lower division
- ix) 1986-1989 Kenya Certificate of secondary Education.
[Njoro Boys High School * Kenya](#)
- Aggregate B (92/120 Points)
- x) 1978 -1985 Kenya Certificate of Primary Education
[Lenginet Primary School* Kenay](#)
- Aggregate 64/72 points
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C) TRAINING, WORKSHOPS AND SEMINARS ATTENDED.

- i) 2004-Community management of water supply and environmental sanitation programs- NETWAS.
- ii) 2005- Change management. Eliud associates.
- iii) 2006-Contract management- IEK.
- iv) 2007- Industrial waste water treatment techniques- JICA.
- v) 2009- GIS for resource mapping and planning -CETRAD
- vi) 2012- Application of GIS in management of water supply utilities- KEWI
- vii)2015- Autodesk CAD Civil 3D -CAD swift.

- viii) 2016- Urban water & combined sewer hydraulic modelling using Bentley Water Gems and Sewer Gems- Citech.
- ix) 2016- Technical introduction to structural Eurocodes-KEBS & Moi university.
- x) 2018- Kenya National Dam Conference – NW&PC

D) Skills

Project planning, Project design, project implementation and supervision, Project Closure, Water and Wastewater projects' design, Hydrologic and Hydraulic modelling, Auto Cad, Civil 3 D, GIS, MS project professional, Geotechnical and Foundation Engineering, Environmental Engineering, Construction Engineering Management, Contract Management, Structural Eurocodes, Bantley Water and Sewer Gems, Self Motivated, Reliable, Dependable, Responsible, Adaptable, Team Work, Initiative, Timelines adherence, Dedicated, Organized, methodical, interpersonal skills, Active and Dynamic Approach to Work, Decisive and Mentoring.

E) REFEREES

- i) **Eng. Nicholas Nganga**
Manager- Civil service
0711615950
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 - ii) **Eng Benard Oketch**
Managing Director- Howard Humpreys
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 - iii) **Eng. Robert Nyamongo Ondeyo**
Director- Site Services Limited.
0722528374
rnyamongo@gmail.com
 - iv) **Eng Denis Aringo Odeck**
Director-KeNHA.
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dodeck@gmail.com
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F) CERTIFICATES

- i) Professional Engineer (P.E)- Engineers Board of Kenya (EBK)
- ii) Certified Project Management Professional (PMP)- Project Management Institute (PMI-USA)
- iii) Certified Project Management Professional -Chattered Institute of management (CMI-UK)

- iv) Graduate member-Institute of Engineers of Kenya (IEK).
 - v) Corporate member Association of Construction Managers of Kenya (ACMK)
 - vi) Corporate member Kenya Association of Project Managers (KAPM)
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G) LANGUAGES.

- i) English- Fluent speaking and writing.
 - ii) Kiswahili- Fluent in writing and speaking
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