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Nairobi, Kenya



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Skills & Competences

Revit



Robot Structural Analysis



Civil 3D



Documentation Applications



Project Management



Languages

English

Expert

Kiswahili

Expert

Interests

BIM | Civil Engineering
Science | Rugby | Match
Officiating | Revit | Robot |
Project Management |

Referees

Dr. Simeon O. Dulo

Department of Civil Engineering
University of Nairobi
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Eng. Andrew K. Mutua

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Eng. Kennedy Ngiri

Mangat, I.B. Patel & Partners
Consulting Engineers.
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Email: kangken08@gmail.com

Muthomi Munyua

P.O. Box 4679 – 30100

ELDORET

A creative and innovative civil engineer with great ability to take initiative

Work Experience

- 09/2018 – Present Nairobi, Kenya
Asst. Lecturer
University of Nairobi
 - Running a Eurocode Adoption Programme
 - Lectures Architecture & Civil Engineering Students
 - Research & Publications
- 07/2016 – 09/2018 Nairobi, Kenya
Graduate Engineer, BIM Coordinator
Mangat, I.B. Patel & Partners Consulting Engineers
 - Civil Works
 - BIM Level 2 Implementation
 - Construction Supervision
 - Project Management
 - Structural analysis, design and detailing

Academic Qualifications

- 09/2017 – Present In Progress
Master of Science in Civil Engineering (Structures)
University of Nairobi
- 09/2011 – 09/2016 Honours
Bachelor of Science in Civil Engineering
University of Nairobi
- 01/2010 – 08/2011 Merit
Diploma in Business Information Technology
Strathmore University
- 06/2006 – 11/2009 Mean Grade: A
Kenya Certificate of Secondary Education
Mang'u High School

Professional Associations

Institution of Engineers of Kenya (IEK) Institution of Structural Engineers (IStructE)
Engineers Board of Kenya (EBK) American Society of Civil Engineers (ASCE)
Architectural Association of Kenya (AAK-E)

Personal Achievements

Class Representative
Officiated in International Rugby Events

Patents

Working on a patent for an economic mould for casting concrete cubes

Training, Seminars & Short Courses

COURSE	OUTLINE
09/2015 Introduction to Concrete Technology University of Johannesburg	<ul style="list-style-type: none"> • Advancement in Concrete Technology • Concrete Additives and admixtures • Civil Engineering Science
09/2016 Robot Structural Analysis Autodesk	<ul style="list-style-type: none"> • Modelling Strategies • Calculations and Results Presentation • Steel Frame Sizing • Reinforcement of R.C. Elements
12/2016 Risk Management in Construction Architectural Association of Kenya	<ul style="list-style-type: none"> • Risk management in Construction sites • Professional indemnity insurance • Making buildings accessible to People with Disabilities
01/2019 Pedagogy & Andragogy Training University of Nairobi	<ul style="list-style-type: none"> • Transfer of skills and knowledge • Effective teaching of mature people • Problem based teaching approaches
07/2019 Training on Eurocodes Kenya Bureau of Standards	<ul style="list-style-type: none"> • Applying actions on Structures • Design of Steel Structures to Eurocodes • A proposal on developing Kenya's National Annexes

Academic Paper Presentation

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| 1. A Study of Deep Excavations and Excavation Support Systems in Soft Soils
23rd Institution of Engineers of Kenya Annual Conference | ▪ Kwale, Kenya |
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Projects & Tasks

PROJECT CLASSIFICATION	PROJECTS HANDLED	TASKS CARRIED OUT
Residential	<ul style="list-style-type: none"> ▪ Loresho Peaks: Estate with a private road consisting of 10 residential units each with swimming pool. ▪ Muthaiga: Private residence including basement involving geotechnical work 	<ul style="list-style-type: none"> • General arrangement drawings and Civil Works • R.C detailing drawings for slabs, beams, columns, staircase, and foundations. • Preparation of bar bending schedule for R.C works and quantity take offs • Inspection of works
Mixed-use Development	<ul style="list-style-type: none"> ▪ I&M Tower: Building consisting of retail mall and office block 	<ul style="list-style-type: none"> • Guided technicians to do R.C, detail drawings and bending schedules • Construction site supervision and project management
Industrial	<ul style="list-style-type: none"> ▪ Katangi Warehouses: Factory with mechanical equipment and storage 	<ul style="list-style-type: none"> • REVIT and ROBOT computer software to model and analyse the structures in 3D • Civil Works