

## KUNG'U GITHACHURI

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Profession	Civil Engineer
Nationality	Kenyan
Date of Birth	3 November 1981

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### Contact Information

Email	<a href="mailto:kungugithachuri@yahoo.com">kungugithachuri@yahoo.com</a>
Telephone	+254 (0) 722 938 081

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### Education

2010	MSc. Civil Engineering; University of Cape Town
2006	BSc. Civil Engineering; University of Nairobi

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### Professional Registration & Memberships

Professional Engineer: Engineers Board of Kenya; A 2877  
Corporate Member: Institution of Engineers of Kenya; M 4628  
Member: Chartered Institute of Arbitrators; M 38233

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### Employment Record

Feb 2017 - Date	Divisional Manager: Civil & Structural Engineering: Bosch East Africa Ltd.
Aug 2013 - Dec 2016	Civil Engineer: Engplan Consulting Engineers Ltd.
Apr 2012 - Jul 2013	Highway Engineer: Stroutel Afrique Consulting Engineers Ltd.
Feb 2010 - Mar 2012	Assistant Engineer: APEC Consortium Consulting Engineers Ltd.
Mar 2008 - Dec 2009	Research Assistant & Tutor: University of Cape Town
Oct 2006 - Feb 2008	Site Engineer: Kiarigi Building Contractors

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### Publications:

1. **Githachuri K**, Alexander MG. Durability performance potential & strength of composite binder blended Portland limestone cement concrete. Cement & Concrete Composites. 2013;39:115-121.
2. **Githachuri K**, Alexander M, Moyo P. Durability performance of a range of marine concretes & the applicability of South African Service Life Prediction Model. Materials & Structures. 2012;45:185-198.

### Experience Qualifications

- Construction Dispute Arbitration & Adjudication
  - Design of civil infrastructure works (roads & runways), reinforced concrete structures, drainage structures, water supply & wastewater reticulation networks
  - Tender documentation, rate analysis & cost estimation
  - Project management, construction supervision and contract administration
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- Mechanical, chemical & index testing of construction materials
- Structural integrity audits & testing of reinforced concrete structures
- Engineering & scientific report writing & data analysis
- Business development: Preparation & submission of tenders, expressions of interest & request for proposals

## Experience Record:

FEB 2017 – DATE

**BOSCH EAST AFRICA LTD (CONSULTING ENGINEERS): NAIROBI, KENYA**

### **DIVISIONAL MANAGER - CIVIL & STRUCTURAL ENGINEERING**

#### *Responsibilities:*

- Project team leader
- Cost control of consultancy services
- Material & geotechnical investigations
- Design of civil & structural works, design checks, reviews & reports
- Tender action, adjudication, negotiation & award
- Construction supervision, compliance testing & works measurement
- Contract administration & project management
- Infrastructure audits, structural assessment & testing
- Training and mentoring civil engineering graduates & interns

#### **Project Management & Construction Supervision**

- easyGym: Interior fit-out of training and health facilities in Kenya for Amistad Holdings Ltd
- Project SAOSA: Refurbishment works for an effluent treatment plant in Kericho for James Finlay (K) Ltd

#### **Civil Infrastructure Projects**

- Project Silver: Refurbishment works for roads & storm water reticulation networks at the Unilever Nairobi factory for Unilever South Africa Pty Ltd
- Coffee Gardens: Rehabilitation of driveways at Coffee Gardens Estate, Nairobi

#### **Structural Projects**

- Gertrudes Kitengela: 2-storey reinforced concrete frame building in Kitengela for Gertrudes Garden Children’s Hospital
- Engineering design and construction supervision of various multi-storey residential buildings in Nairobi

#### **Waste Water Projects**

- TCML Magadi Township Effluent Recycling: Waste water recycling plants and networks for domestic and factory effluent in Magadi Township for Tata Chemicals Magadi Ltd
- Naivasha Safari Center: Waste water drainage network and treatment plant for a retail centre in Naivasha for Emerge Holdings Ltd
- Peponi Residential Hotel: Waste water treatment plant for a 110-bed hotel in Nairobi for Peponi Ltd



## **Structural Assessment**

- Saosa Structural Survey: Structural integrity assessment as a result of corrosion of steelwork and potential excessive loading for James Finlays (K) Ltd
- TCML Magadi Township Flats: Structural integrity audit of 2-storey residential flats in Magadi Township for Tata Chemicals Magadi Ltd

## **Audit**

- Audit of water and sewerage infrastructure for 8 No water utility companies in Kiambu County

## **Business Development**

- Preparation, review & submission of tenders, expressions of interest & request for proposals and quotations for various engineering consultancy services (civil, structural, mechanical, electrical, industrial & agricultural) projects in Kenya, Uganda, Rwanda, Ethiopia, Malawi & Ghana

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**AUG 2013 - DEC 2016      ENGPLAN CONSULTING ENGINEERS LTD: NAIROBI, KENYA**

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## **CIVIL ENGINEER**

### *Responsibilities:*

- Team leader
- Material & geotechnical investigations
- Engineering design of civil/structural works, design checks & reviews
- Project progress reporting
- Construction supervision and project management
- Tender documentation, contract administration and preparation of payment certificates
- Structural assessment & non-destructive testing

## **Aviation Projects**

- Everett Aviation Hangar: Apron stands, taxiway, roads, storm water & waste water reticulation & drainage networks for a hangar & terminal building in Dar es Salaam, Tanzania for Everett Aviation

## **Project Management & Construction Supervision**

- Karen Hills: Roads, storm water & water reticulation & drainage networks for a gated community in Karen for Lordship Africa Ltd
- Runda Paradise: Roads, storm water, water & waste water reticulation & drainage networks for 150 No town houses in Kiambu for Maha Developments Ltd

## **Civil Infrastructure Projects**

- Elono: Roads, storm water & waste water reticulation networks for a 180-acre gated community in Karen for Acorn Group Ltd
- Ololua Ridge: Roads, storm water & waste water reticulation networks for a 60-acre gated community in Karen for Acorn Group Ltd
- The View: Roads, water, storm water & waste water reticulation networks for 43 No town houses in Kitengela for Consultmab LLC (USA)



## **Warehouse & Factory Projects**

- Siginon Cargo Centre JKIA: Roads & storm water reticulation networks for a 7,000m<sup>2</sup> RC frame warehouse at JKIA for Siginon Group
- ABM Salgaa Industrial Plant: Warehouse, plant sheds, roads, driveways, storm water & waste water reticulation networks for an industrial plant in Nakuru for the manufacture of pre-stressed concrete & treated timber poles for ABM Holdings Ltd
- IHS Regional Distribution Warehouse: Warehouse, RC driveways & storm water reticulation networks for a 10,000m<sup>2</sup> reinforced concrete (RC) refrigerated cargo warehouse in Mlolongo for Imperial Health Services
- Africa Spirits Thika: Warehouse, roads & storm water reticulation networks for 4Nº 9,000m<sup>2</sup> RC frame factory & warehouses in Thika for Africa Spirits Ltd

## **Educational & Religious Projects**

- USIU Students Centre: Roads, storm & waste water reticulation networks for 3 Nº 3-storey RC frame buildings in Kasarani for USIU Africa
- USIU Science & Technology Centre: Roads, storm & waste water reticulation networks for a 3-storey RC frame building in Kasarani for USIU Africa
- Kericho Cathedral: Roads, storm & waste water reticulation networks for a 1,000 seat RC frame church building in Kericho Town for the Archdiocese of Kericho
- HMI Kibiko: Residential building, roads, storm & waste water reticulation networks for a 4-storey RC frame building in Kibiko area of Ngong Town for the Handmaidens of Mary Immaculate

## **Retail Projects**

- Southfield Mall, Embakasi: Roads & storm water reticulation networks for a 4-storey RC frame building shopping mall in Embakasi for Pipeman Manufacturers Ltd
- Green Square Mall: Roads & storm water reticulation networks for a 4-storey RC frame building shopping mall in Kericho Town for Greensquare Mall Ltd

## **Commercial Projects**

- Raghvani Office Block & Apartments: Roads & storm water reticulation networks for a 15-storey reinforced concrete frame building in Parklands for Raghvani Investments Ltd
- Purple Haze Apartments: Roads & storm water reticulation networks for 2Nº 16-storey RC frame buildings in Kilimani for Edifice Ltd
- Tiara II: Roads & storm water reticulation networks for a 10-storey RC frame building in Nairobi for Acorn Group Ltd

## **Structural Assessment & Remedial Action**

- Standard Chartered Bank HQ, Chiromo: Structural assessment of causes of cracks on floors & walls & recommendations for remedial action
- K-Mall, Komarock: Investigation & assessment of causes of sub-surface water ingress & recommendations for remedial action



- World Bank Group HQ, Upper Hill: Investigation & assessment of causes of sub-surface water ingress & cracks on floors & walls & recommendations for remedial action
- Caroline Karimi Apartments: NDT Testing & Structural assessment of building subsidence & recommendations for remedial action for existing structures
- Residential house on Quarry Lane, Karen: Structural assessment of causes of cracks & recommendations for remedial action

## **Business Development**

- Preparation, review & submission of tenders, expressions of interest & request for proposals various projects in Kenya, Uganda, Somalia & South Sudan

**APR 2012 - JUL 2013**

**STROUTEL AFRIQUE LTD (CONSULTING ENGINEERS): NAIROBI, KENYA**

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## **HIGHWAY ENGINEER**

### *Responsibilities:*

- Project engineer
- Material & geotechnical investigations
- Engineering design of civil works, design checks & reviews & report preparation
- Construction supervision & project management

## **Civil Infrastructure Projects**

- Preliminary & Detailed Engineering Design of Kakamega - Ingotse - Nzoia River - C33 Junction (C41) Road (41 km) for the Kenya National Highways Authority
- Mtwapa Heights: Roads, storm, water & waste water reticulation of for 65 No houses and 10 No RC frame buildings in Mtwapa for the NIS Staff Superannuation Scheme
- Design & Preparation of Bid Documents for Infrastructure Services on Phase II of Export Processing Zones Authority in Athi River for the EPZA

## **Business Development**

- Preparation, review & submission of tenders, expressions of interest & request for proposals various projects in Kenya and Somalia

**FEB 2010 - MAR 2012**

**APEC CONSORTIUM LTD (CONSULTING ENGINEERS): NAIROBI, KENYA**

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## **ASSISTANT ENGINEER**

### *Responsibilities:*

- Engineering design & construction supervision
- Material & geotechnical investigations
- Report preparation
- Tender documentation

## **Aviation Projects**

- Detailed Engineering Design of Passenger Apron Remote Stands at Jomo Kenyatta International Airport (JKIA) for the Kenya Airports Authority (KAA)



- Preparation of Tender Documents for Construction Supervision for Rehabilitation of Aircraft Pavements & Upgrade of Runway Capacity & ILS at JKIA for KAA

## **Civil Infrastructure Projects**

- Rehabilitation of Nairobi – Thika (A2) Highway
- Detailed Engineering Design Design & Bid Document Preparation for Rehabilitation & Upgrading of Lang’ata Road – C58 (KWS Gate – Bomas Section) for the Kenya Urban Roads Authority
- Preliminary & Detailed Engineering Design of All Saints Cathedral - Dagoretti Corner – Karen - Ngong Town Roads & Karen – KWS Gate (C63/C58) Roads for the Kenya Urban Roads Authority
- Assistant Transport Engineer for Feasibility Study of Mass Rapid Transport System in the Nairobi Metropolitan Region for the Nairobi Metropolitan Transport Authority

## **Water Supply & Waste Water**

- Detailed Engineering Design & Supervision of Nyahururu Water & Sanitation Augmentation Project in Nyahururu for the Norther Water Services Board

## **Business Development**

- Assistance in preparation & submission of tenders, expressions of interest & request for proposals various projects in Kenya

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**MAR 2008 - DEC 2009      UNIVERSITY OF CAPE TOWN: CAPE TOWN, SOUTH AFRICA**

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## **RESEARCH ASSISTANT**

### *Responsibilities:*

- Research on various cement & concrete industry funded projects on material properties & mechanical & durability performance of different cement types

### **Research Projects:**

- Natal Portland Cement: Evaluation of the durability performance & strength of composite binder blended Portland limestone cement concrete
- PPC Group Laboratories Services/ CEMBETON/ University of Cape Town/ University of Witswatersrand: The engineering & durability performance of concrete containing various slag types at different replacement ratios
- Portland Ready Mix: Determination & analysis of chloride & shell content of dune sand for use in ready mix concrete

### **Tutor**

- Undergraduate Civil Engineering & Architecture students



**OCT 2006 - FEB 2008**

**KIARIGI BUILDING CONTRACTORS: NAIROBI, KENYA**

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**SITE ENGINEER**

*Responsibilities:*

- Construction supervision & resource management of various road rehabilitation & dam construction projects

**Business Development**

- Preparation for submission of tender documents & quotations for various road & dam construction projects in Kenya

**Associate Consultant Experience Record**

**JAN 2017 - OCT 2019**

**ARBITRATION DISPUTE (CONFIDENTIAL CLIENT): NAIROBI, KENYA**

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**TECHNICAL ASSISTANT**

*Responsibilities:*

- Technical assistant to the Claimant
- Review of submissions for both the Claimant & Respondent
- Review of Claimant’s calculations

**JUL 2013 - JAN 2014**

**ENGICONSULT LTD (CONSULTING ENGINEERS): NAIROBI, KENYA**

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**HIGHWAY ENGINEER**

*Responsibilities:*

- Geometric design review
- Completion & compilation of engineering design reports & drawings
- Preparation of Bills of Quantities & Tender documentation

**Civil Infrastructure Projects**

- Preliminary & Detailed Engineering Design of Ndenderu - Banana - Kanunga (C63) Road (12 km) for the Kenya National Highways Authority
- Preliminary & Detailed Engineering Design of Uplands - Githunguri - Ngewa (C65) Road (32 km) for the Kenya National Highways Authority

**APR 2013 - FEB 2014**

**RAILWAY № 5 ENGINEERING GROUP CO., LTD: NAIROBI, KENYA**

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**TECHNICAL ASSISTANT**

*Responsibilities:*

- Preparation for method statements and review of tender documents for various road projects in Kenya and Somalia

