

Gladwell Wanjiku Nganga

Curriculum vitae

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PERSONAL PROFILE

I am a hardworking individual, committed to carrying out tasks allocated efficiently and providing timely results. I also have a keen interest in the use of concrete for construction and seek to develop my career in this field.

EDUCATION BACKGROUND

2010 – 2012
University of Cape Town

MSc. Engineering in Civil Engineering

2004 – 2009
University of Nairobi

BSc. Civil and Construction Engineering

2004 – 2008
Kenya College of Accountancy/
Strathmore University

Certified Public Accountant (CPA-K)

WORK EXPERIENCE

2017 – Current

Ministry of Transport,
Infrastructure, Housing,
Urban development and
Public Works

Assistant Engineer I

- Pavement and structural condition surveys on existing pavements for maintenance
- Undertaking research on new materials that can be used in pavements for road projects or structures

2016: February – September
University of Nairobi

Research assistant

- Compilation of an internal publication of abstracts of past studies (MSc. and Ph.D.) undertaken in the civil engineering department
- Transcribing lecture notes from hardcopy to soft copy

2010 – 2015
University of Cape Town

Tutor/teaching assistant

- Consulting and assisting students with course work
- Presentation of certain sections of courses to undergraduate students
- Assessment of student's tests and assignments
- Compilation of student's grades for final grade analysis

2012 – 2015
University of Cape Town

Concrete laboratory assistant

- Undertaking various tests on concrete samples from external projects to assess durability, shrinkage and strength properties
- Compilation of test results and writing out reports to clients

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SKILLS

- **Communication**

Oral communication skills developed through presentations done in group seminars and at conferences on work related to thesis topic. Writing skills obtained during the research in thesis compilation, through publications done and writing out various reports to clients for industry related work carried out.

- **Data gathering and analysis**

Obtained from MSc. project work undertaken which involved a substantial amount of data gathering from the case study and statistical analysis to attain research objective.

- **Organisation**

Developed through tutoring experience that required compilation of student marks, preparation of tutors for tutorial sessions and invigilation of tests.

- **Proof reading and editing**

Involved in various tasks of peer reviewing, critiquing and editing colleagues work to ensure the writing is coherent.

- **Numeracy**

A good background in work that involves computations gained from various courses in the engineering degree and accounting certification

SUMMARY OF PUBLICATIONS

Nganga, G.W., Mumenya, S.W. and Abuodha, S.O. (2019). Towards a performance-based approach for design of reinforced concrete mixes. Proceedings of the 26th Institute of Engineers of Kenya (IEK), 3rd - 6th September 2019, Diani, Ukunda.

Alexander, M.G. and Nganga, G.W. (2016), 'Introduction: Importance of marine concrete structures and durability design', in Marine Concrete structures: Design, durability and performance, 1st edition, M.G. Alexander (Ed.), Woodhead Publishing. London.

Nganga, G.W. (2014), Concrete in the service of mankind? South Africa Institute of Civil Engineers (SAICE) Civil Engineering Magazine: 22(4):86

Nganga, G.W., Alexander, M. and Beushausen, H. (2013), 'Practical implementation of the Durability index performance-based design approach', Construction and Building Materials, 45:251-261.

Nganga, G.W., Alexander, M.G., Beushausen, H. and Moyo, P. (2011), 'Evaluation of the implementation of Durability index based Performance Specifications', Presented at the International conference on advances in construction materials through science and engineering, Hong Kong, China, September 2011

REFEREES

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