

CURRICULUM VITAE

PERSONAL DATA

Name: Eng. Esther Emmy Owano Amimo
Date of Birth: 24th April, 1984
Nationality: Kenyan
Marital Status: Married
Languages: English, Swahili, Luhya
ID No.: 23711352
KRA PIN: A005037057S
Mobile Phone No. +254 720 360624
Postal Address: P.O. Box 2277 – 01000, Thika
Email: emmyamimo@gmail.com

PERSONAL STATEMENT

Professionally, I am a well experienced highways engineer with expertise in pavement design and analysis and road construction materials and methods employed at Materials Testing and Research Division of the State Department for Infrastructure. My research work on cold asphalt mixes has positively impacted the development of specifications for cold applied materials and presents my contributions to the road construction industry on alternative construction materials and innovative technologies.

I have 10 years of experience as a materials engineer having been appointed to various construction and rehabilitation road projects to assist in quality control and supervision of the projects. I am also well trained in transportation engineering and look forward to contributing to sustainable transport solutions in our cities.

Administratively, I am a firm hands-on and results oriented manager, practicing professionalism, teamwork and integrity and I strive to deliver high levels of productivity while maintaining quality and accuracy. I am further trained in project planning and management and also senior management.

EDUCATION BACKGROUND

University/School	Period - Year	Academic Qualifications
University of Nairobi	2012 - 2017	Master of Science in Civil Engineering (Transportation and Highways)
University of Nairobi	2003-2008	Bachelor of Science in Civil Engineering, 2 nd Class Honours, Upper Division,
The Kenya High School	1998-2001	Kenya Certificate for Secondary Education, A- (Minus),
Eregi Girls Primary School	1990-1997	Kenya Certificate for Primary Education, A(Plain),

PROFESSIONAL ENGINEERING REGISTRATION

Professional Body	Membership/Registration No.	Membership Type
Engineers Board of Kenya (EBK)	A3438	Professional Engineer
Institution of Engineers of Kenya	M4152	Corporate Member

KEY SKILLS AND COMPETENCIES

- Pavement analysis and structural performance evaluation of pavements
- Provisions of Manuals and Specifications for Road and Bridge Construction
- Construction supervision skills and teamwork formulation
- Research and innovation
- Contract management and administration
- Experience and knowledge of the public procurement regulations
- Strong decision-making skills and the ability to prioritize and plan effectively
- Excellent communication and leadership skills
- Training skills
- Ability to prepare comprehensive work plans and programmes
- Policy and guideline formulation
- Proficient in various software i.e. MS Office, MS-Project, AutoCAD, CIVIL 3D, Rosy Design and WINDCP softwares

PROFESSIONAL EXPERIENCE

**Organization: Materials Testing and Research Division (MTRD) – State Department
for Infrastructure**

Position: Engineer (Materials)

Duration: October 2009 to Date;

Duties and Responsibilities:

- New pavement Design
- Rehabilitation and overlay designs
- Quality control and testing in road construction and maintenance projects
- Construction supervision of earthworks, pavement layers and concrete structures
- Preparation of site diaries and site inspection reports
- Measurement and computation of construction quantities
- Evaluation of Contractor's claims
- Preparation of site meeting minutes and monthly progress reports
- Research on road construction materials and methods
- Vetting of engineering design reports prepared by private engineering Consultants for the Roads Authorities
- Preparation of Request for Proposals for procurement of various consultancy services
- Traffic counts and axle load surveys on roads and analysis of traffic data
- Alignment soils and material site investigations
- Carrying out in-situ strength tests on road pavements e.g. deflection measurements and Dynamic Cone Penetrometer (DCP) tests and analysis of the data collected
- Administrative responsibilities

Specific Duties/Projects assigned

- Carried out new pavement design for Mago – Mululu- Wangulu Road (E240)
- Carried out Rehabilitation and overlay designs for:-
 - a) Mau Summit – Kisumu – Busia Road (B1)
 - b) Mumbuni – Kathiani Thwake River Road (E484)
 - c) Ukunda – Diani Beach Roads (E965)
 - d) Ngara – Ruaka - Kamandura Road (C62)
- Supervision and Contract Management of Kangema – Gacharage (C70) Road construction project
- Preparation of Request for Proposals, evaluation of technical and financial proposals for procurement of Consultancy Services for:
 - a) Study on geosynthetic reinforced materials for road embankments and pavements;

- b) Performance evaluation of Reinforced Earth Walls (Re-Walls) along Nairobi–Thika Road (A2)
- Participation in the ongoing review of Kenya Road Design manuals and Specifications
- Performance Contract reporting for Materials Department and preparation of departmental annual reports
- Appointed as Project Materials Engineer to the following projects:
 - a) Construction of Oginga Odinga, Section 58 Loop Roads, West Road and Government Road in Nakuru town, KURA/008/2009-2010
 - b) Construction of Lanet – Elementaita Road (D320), KeRRA/ RWC008
 - c) Rehabilitation and Repair of Ukunda – Diani Beach Roads (E965), KeRRA/RMC-017
 - d) Periodic maintenance of Mkapuni – Kaloleni Road (C111), KeNHA/RD/M/649/2012
 - e) Upgrading and Rehabilitation of Eastleigh Roads (Phase II)
 - f) Construction of Access Road to Infinity Industrial Park, Nairobi
 - g) Upgrading to Bitumen Standards and Performance Based Maintenance of Embu Hospital - Kathangariri - Kiajokoma - Runyenjes - Mugui - Mbui Njeru - Kanja – Siakago Roads by KeRRA, RWC 164
 - h) Upgrading to Bitumen Standards and Performance Based Maintenance of Ruaka – Banana – Limuru Ngecha & Thogoto - Gikambura – Mutarakwa (Phase I) by KeRRA, RWC 126

Duties and Responsibilities as a project materials engineer include:

- Assisting the Resident Engineers in setting up site laboratories and testing equipment for the projects
- Assisting in the establishment of quality control systems for the project and ensuring that the required standards of testing are followed by the site quality control team.
- Carrying out confirmatory testing of materials used in the projects
- Participating in the construction of trial sections for the pavement layers
- Review of material sites identified for use in construction of pavement layers
- Coordination of surface dressing design and quality control including the spread rates and spray rates.
- Attending to test requisitions and requests for approval of works
- Evaluation of concrete mix and bituminous mix designs submitted by the Contractors and participation in field trials
- Preparation of monthly materials quality control reports and pavement record charts

- Attending monthly site meetings to assess quality and progress of works.

Assistant Structural Engineer;

Ngasi Consulting Engineers;

December 2008 to September 2009;

Duties and Responsibilities:

- o Design of structures – both framed and load bearing structures.
- o Preparing structural drawings and specifications for various projects.
- o Preparing bar bending schedules and steel quantities to be used for the various projects.
- o Construction supervision.

Specific Duties/Projects

- Structural design of Areca Palms apartments on Plot LR No. 209/11020 Villa Franca, Nairobi
- Prof. Nelson Awori centre on Ralph Bunche Road, Nairobi.

ON-JOB TRAINING, WORKSHOPS AND SEMINARS ATTENDED

Institution/College	Name of Course/Workshop/Conference	Duration
Co-operative Retreat and Conference Centre, Karen	Induction Course into the Public Service	7 th -13 th February 2010
Kenya Institute of Highways and Building Technology (Kisii Training Centre)	Training on Employment Intensive Surfacing Techniques	19 th – 30 th July 2010
Kenya Institute of Highways and Building Technology, Nairobi	Basic Training Course for Engineers	9 th – 20 th May 2011
Australia Roads Research Board, Queensland	Low Volume Roads Symposium 2013	25 th – 27 th November 2013
Kenya School of Government – Lower Kabete	Project Planning and Management	3 rd – 27 th May 2016
Kenya Institute of Highways and Building Technology (KWS Naivasha)	Performance Based Road Maintenance Contracts	19 th – 23 rd September 2016
Kenya Roads Board and MTRD	2 nd International Conference on Transport and Road Research (iTRARR)	11 th -14 th June, 2018
Kenya School of Government – Lower Kabete	Senior Management Course 289/2018	30 th July – 24 th August 2018
Bamburi/MTRD at Radisson Blu Hotel	Soil Stabilization Techniques and Road Re-treatments Seminar	7 th February 2019

REFEREES

Please feel free to contact the under mentioned in regard to my competence, work ethic and performance.

Eng. C. M. Muriuki

Senior Principal Superintending Engineer (Materials)

Materials Testing & Research Department

P.O. Box 11873 -00400, Nairobi

Tel: 0722 720889

Email: mwendacm@gmail.com

Eng. Joachim M. Mbarua

Senior Principal Superintending Engineer (Materials)

Materials Testing & Research Department

P.O. Box 11873 -00400, Nairobi

Tel: 0722 830458

Email: jmungania5@yahoo.com

Eng. James K. Murage

Deputy Director, Kirinyaga

Kenya Rural Roads Authority

P.O. Box 700, Kiambu

Tel: 0722 801088

Email: muragejk@yahoo.com