

# CALVIN KIPLANGAT TIONY

## Quality Manager | Conformity Assessment Consultant

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P.O. B ox 54448 - 00200 Nairobi, Kenya

### SUMMARY

Seasoned Quality Manager and Technology enthusiast skilled at spearheading conformity assessment and regulatory affairs in the Automotive industry. Possess deep knowledge and understanding of manufacturing, product certifications and implementation of Quality Management Systems & Accreditation Standards.

Talented leader with proven ability of leading multifunctional teams to deliver quality outputs. Highly passionate about sustainable road transport and environmental conservation.

### EXPERIENCE

#### Quality Manager

Isuzu East Africa Limited

01/2019 - Ongoing

##### Key Contributions:

- Leading the manufacturing quality, ISO 9001 QMS and regulatory compliance teams.
- Developing, deploying, and tracking Business Plan objectives for the quality function.
- Supporting Field Engineering function in the implementation of the Product Warranty process.
- Leading and participating in manufacturing quality reviews and supporting field product quality issues resolution.
- Leading the understanding and utilization of tools for product, process, and system improvement and problem solving.
- Enforcing implementation of Built in Quality principle of Kaizen.
- Developing quality assurance plans by identifying critical control points and preventive measures; establishing critical limits, monitoring procedures, corrective actions, and verification procedures; monitoring inventories.
- Developing, monitoring, and taking corrective actions of key performance goals for quality function and directing reports.

#### Senior Homologation Engineer

Mobius Motors Kenya Limited

04/2015 - 12/2018

##### Key Contributions:

- Ensured the homologation of all applicable policies, standards, and regulations related to Mobius vehicle models.
- Supported the development and maintenance of the internal policies related to the application, implementation, enforcement and audit of all policies, standards and regulations.
- Worked with external agencies and government regulatory authorities to ensure compliance of Mobius products in the respective markets where the products will be sold.
- Planned and ensured the execution of homologation test and approval projects for the complete Mobius models.
- Prepared, reviewed and submitted typed regulatory approval documents and drawings to applicable regulatory bodies.
- Advised the Product Development teams on current and future legislative matters relating to automotive design, manufacture and functionality for respective target markets.
- Agreed on vehicle certification requirements with government regulatory bodies.
- Monitored and reported on all applicable legislation changes in target operating markets for the vehicle.
- Supported the Product Development Teams to ensure robust and consistent application of regulatory guidelines into new designs.
- Monitored ongoing adherence of overall vehicle functionality to required regulatory requirements through the design process.
- Lead the Product Development teams to resolve regulatory design issues.

### EDUCATION

#### MSc. Energy Management

University of Nairobi

2008 - 2013

#### BSc. Mechanical Engineering

University of Nairobi

2001 - 2006

### TRAINING / COURSES

#### Industrial Radiographic Inspection Level 1

Southern African Institute of Welding | 2011

#### Industrial Ultrasonic Inspection Level 1

Southern African Institute of Welding | 2011

#### Certificate, Internal Auditor of ISO 17025:2005

Kenya Bureau of Standards | 2010

#### Certificate, Internal Auditor of ISO 9001:2000 Quality Management Systems

Kenya Bureau of Standards | 2008

#### Leadership Excellence Programme

Strathmore Business School

### CERTIFICATIONS

#### Professional Certificate in Electric Cars - Delft University of Technology

edX | Online Course.

#### Certificate in Road Transport Safety in Automotive Engineering - Chalmers University of Technology

edX | Online Course.

### KEY SKILLS

Strategic Leadership

Risk Assessment

Superb Report Writing

Presentation Skills

Capacity Building

Monitoring & Evaluation

### INDUSTRY EXPERTISE

Conformity Assessment in the automotive industry for testing, equipment calibration, standards development, quality assurance and accreditation.

## EXPERIENCE

### CASE Officer (Inspection & Verification)

Kenya Accreditation Service (KENAS)

📅 06/2012 - 03/2015

#### Key Contributions:

- Prepared and executed work plans and resources for proper management of accreditation activities.
- Conducted assessments on Inspection bodies and Testing laboratories for accreditation in line with the ISO/IEC 17020:2012 and ISO/IEC 17025:2005 standards.
- Coordinated and managed assessment teams and acted as a point of contact for customers.
- Promoted and marketed accreditation activities through client sensitization campaigns, training and public awareness programs.
- Maintained and reported on the performance of accredited inspection conformity assessment bodies.
- Conducted internal audits and reported on the performance of the KENAS quality management system in line with ISO/IEC 17011:2004.
- Participated in relevant regional and international accreditation forums.
- Reported periodically and timely on readiness of case files submission for decision making.
- Provided periodic reports on delivery of KENAS objectives and work plans.
- Informed clients on proficiency testing and inter-laboratory comparison programs.

### Laboratory Analyst (Mechanical Engineering)

Kenya Bureau of Standards

📅 2008 - 2012

#### Key Contributions:

- Prepared and maintained laboratory procedures and reports on research carried out.
- Acted as Deputy laboratory manager for the mechanical engineering laboratory section.
- Managed the laboratory information management system (LIMS) daily.
- Identified the modes of operations, maintenance, calibration requirements and theory of operations of testing equipment.
- Designed test methods, procedures, techniques and applications.
- Carried out tests, both destructive and non-destructive in nature including tensile, compression, hardness, impact, industrial radiography, ultrasonic and magnetic particle tests on various types of materials.
- Performed welder certification tests for the evaluation of welders in engineering projects.
- Participated in quality control programs & preparation of statistical reports.
- Participated in the relevant technical committees in standards development as a resource person.

## PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

**Affiliate Member: American Society for Quality (ASQ), 2017.**

**Graduate Member: Energy Institute (UK), 2010.**

**Graduate Member: Institution of Engineers of Kenya (IEK), 2007.**

**Graduate Member: Engineers Board of Kenya (EBK), 2007.**

## VOLUNTEERING

### Mentor

Institution of Engineers of Kenya (IEK)

📅 Ongoing

Volunteering as a Mentor to new graduate engineers in the automotive industry through professional networking forums at the Institution of Engineers of Kenya (IEK).

## CORE COMPETENCIES

### Road Vehicles

- Systems and component testing for regulatory certification.
- Powertrain design for Electric & Hybrid vehicles.
- Business & Policy modelling for Electric Mobility.

### Standards Development

- Standardization of Motor vehicle systems & components for compliance to Kenya National and International Standards.
- Member of Kenya Bureau of Standards (KEBS) Technical Committee TC-122 on Road Vehicles.

### Energy Management

- Pumping systems energy assessment and design according to ISO/ASME 14414:2015 - Pump system energy assessment.

### Conformity Assessment

- Accreditation Lead Assessor for Inspection bodies - ISO/IEC 17020:2012, Testing & Calibration laboratories - ISO/IEC 17025:2005.
- Consultant for Inspection quality systems implementation for ISO/IEC 17020:2012 standard.
- Consultant for Regulatory Type Approvals for Radio Frequency products with Communications Authority.
- Consultant for ISO 9001:2015 - QMS Coaching, Documentation and Implementation.

### Welding Inspection

- Welding Inspection and Non-destructive tests for pipes and plates.
- Certified Radiography & Ultrasonic inspection RT, UT (ISO 9712 & ISO 20807 - Limited, SAIW).

## STRENGTHS



### Excellent communication and interpersonal skills

Excellent verbal and written skills with a demonstrated openness in sharing information and keeping people informed.



### Planning and organizing

Develops clear goals that are consistent with agreed strategies; identifies and adjusts priorities as required.



### Teamwork

Able to work independently as well as in teams to achieve organizational objectives.



### Leadership & people management

Apt at leading cross-functional teams while integrating individual abilities to maximize operational efficiency.



### Automotive industry expertise

Knowledgeable on regulatory affairs with focus on Automotive industry.



### Accountability

Takes ownership of all responsibilities and delivers outputs within prescribed time, cost and quality standards

## VOLUNTEERING

### Automotive Engineering Career Coach

Mangu High School in Thika, Kenya.

 Ongoing

Volunteering as an Automotive Engineering career coach at Mangu High School in Thika, Kenya.

#### KEY ACHIEVEMENTS



Led the Isuzu EA team in 2020 that successfully negotiated and agreed with government regulators Kenya Bureau of Standards (KEBS) and National Transport and Safety Authority (NTSA) on a transition road map to move to the new Euro 4/IV vehicle emission standards within reasonable timelines for both parties starting in January 2023.



Conceived and spearheaded a project in January 2021 to digitize and integrate the 3 management system standards for Quality, Safety and Environment. This created savings of 3 certification audit days, 200 man-hours and made audits paperless to financially save Isuzu EA 1.5 million KES per year.



In 2020, led a cross-functional team of Aftersales vehicle roadworthiness inspection and Engineering bus bodybuilding through training, documentation and assessment to achieve inspection accreditation to the ISO/IEC 17020:2012 standard. This accreditation enabled the teams to perform regulatory inspections on behalf of the transport regulator NTSA. This has provided the company with an added income stream of 7 million KES annually & also positioned the company for government vehicle roadworthiness inspection tenders worth 8 billion KES from 2022.



While at Mobius Motors, I successfully engaged the relevant industry stakeholders through a collaborative standards development process at KEBS to create and approve the first ever vehicle certification standards in Kenya (KS 2725:2018). This enabled the testing and approval by government regulators for the sale of the vehicles in the market.



While at the Kenya Accreditation Service (KENAS), I took a personal initiative to engage the Japanese NGO JICA during a networking forum that resulted in KENAS receiving a training grant for Technical Staff worth 1 million KES towards establishing a Greenhouse gas (ISO 14065 - GHG) accreditation scheme in the organization.



At Isuzu EA, I came up with an idea to design and fabricate a radiator manipulator device for vehicle service workshop benchwork. This enabled in-house vehicle radiator repairs instead of outsourcing to suppliers. This saved the company 500,000 KES annually and eliminated supplier delays in the vehicle service process.

## STRENGTHS



### Creative problem-solving

I continuously research for innovative ways of bettering programmes and sustainable solutions to anticipated problems.

## LANGUAGES

English

Proficient ●●●●●

Swahili

Native ●●●●●

## PASSIONS AND INTERESTS



Electric, Hybrid and Autonomous Vehicle technologies - Improving road vehicle traffic safety and environmental air quality in Kenya and beyond.

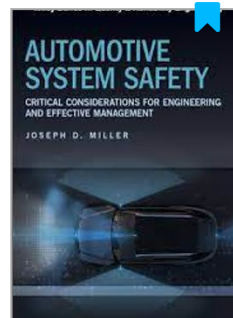


Automotive functional safety practices - Aiming at attaining functional safety professional certification.

## FAVORITE READS



Fin Rooney



Miller, Joseph D

## REFERENCES

### Eng. Peter K. Tum, OGW

Principal Secretary, State Department for Labour, Ministry of Labour and Social Protection, Government of Kenya

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