

CURRICULUM VITAE

NAME : **IMWENE KENNEDY OMUKADA,**
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PROFILE

I am a bachelor of science Analytical Chemistry graduate from the University of Nairobi with an ongoing Master's degree in Analytical Chemistry with specialized knowledge of principles of analytical Chemistry methods, and techniques. I am an accomplished Analytical chemist with a solid history of achievement in Agricultural, Animal products and environmental analysis. Areas of expertise include chromatographic methods, spectroscopic methods and classical techniques.

CAREER OBJECTIVE:

To gain knowledge and practical skills to become an efficient and all-round professional in a reputable and growing organization as well as be resourceful, competent and exemplary at work.

EDUCATIONAL BACKGROUND:

Sep 2019-Date : **UNIVERSITY OF NAIROBI**
MSc. Analytical Chemistry-(On-going).

2014 -2018 : **UNIVERSITY OF NAIROBI**
BSc. Analytical Chemistry Second Upper Division

2002 - 2005 : **S. A KOLANYA BOYS HIGH SCHOOL**
Kenya Certificate of Secondary Education (KSCE)

1994 - 2002 : **KAMOLO PRIMARY SCHOOL**
Kenya Certificate of Primary Education (KCPE)

SOFT SKILLS:

Teamwork

- Member of the UNICSA-University of Nairobi (2015-2018).
- Both Graduate and Undergraduate Research student. (2018-Present)
- Participated in Church Choir competition at Ridgeways Catholic Church-2020

Organizational;

- Successfully combining study, part time work and extracurricular activities.

Communication;

- Report writing, seminar slides presentations for my university course and briefing/inducting the attaches, new interns and visitors.

Analytical thinking;

- Applying statistical and numerical techniques to process data.
- Data interpretation and forming structured arguments supported by evidence.

WORK AND PROFESSIONAL EXPERIENCE:

(1) November, 2019- Date: Central Veterinary Laboratory (CVL), Analytical Chemistry and Food Safety Laboratory- Kabete.

Post: (Public service commission internship program)-**Analytical Chemist/Analyst.**

Duties and Responsibilities:

- Toxicology and Aflatoxin Analysis.
- Pesticide Residue and Antibiotic Analysis.
- Heavy metal Analysis.
- Veterinary drugs analysis

(2) Jan, 2019-Nov,2019 : Kenya Plant Health Inspectorate Service (KEPHIS)

Post: Analytical Chemist

Duties and Responsibilities:

- Analysis of pesticides MRLs on fresh produce.
- Analysis of water for irrigation suitability
- Analysis of organic and inorganic trace contaminants in plants, soil, crops, water and animal produce.
- Analysis of organic and inorganic ingredients in agro-inputs.
- Analysis of aflatoxin in cereals, nuts and Tea matrices.

(3) Feb, 2011 – April 2011 : Mumias Sugar Company Limited

Post: Attachment

Duties and Responsibilities:

- Working in accordance of GLP, GMP and SOP requirements.
- Preparation of primary, Stock and Working standards.
- Analytical balances and Critical volumetric glassware verification.
- Sample Collection, Preservation, Preparation, Extraction.

WORKSHOP AND TRAINING ATTENDED:

1. 3rd Phytosanitary Conference (Virtual Edition) 13th -16th September 2021-KEPHIS
2. Nuclear Magnetic Resonance training at the Kenya National-NMR Center, University of Nairobi, Kenya August, 2021.
3. African Material Research Society Conference on Nanotechnology Webinar August 2021
4. Workshop on Pan- African Covid-19 and Food Safety Webinar supported by University of Nairobi and the Institute for Food Safety at Cornell University, April 2021.
5. Trained on Spectroscopic techniques (ICP-MS and ICP-OES), GFAAS, FAAS, CV-AAS at Kenya Plant Health Inspectorate Service-KEPHIS Headquarters.

6. LC-MS/MS, GC-MS/MS, GC-MS, GC-Detectors and UHPLC training at Kenya Plant Health Inspectorate Service Headquarters.
7. Training on HPTLC and ELISA screening at Directorate of veterinary services Labs
8. Data Analysis using Minitab 17/19, Microsoft Excel and JMP-(SAS).

OTHER PROFESSIONAL SKILLS ACQUIRED:

2020: Digital Program Ministry of ICT.

Data management/Entry and Virtual Assistant training by Ajira

2014: Driving License (DL No: 1907035-YVS 196)

Class B C E -Experience: Seven (7) years.

2010: Egerton University, Department of Engineering

Computer Packages Certificate

Research Work Completed:

Analysis of Heavy Metals in Selected Foodstuffs from Different Estates in Nairobi Metropolitan Area. University of Nairobi, Chemistry Department-Pesticide Research Laboratory. **(Undergraduate research work)**

Resource Recovery: Use of Microbial Fuel Cells in Electricity Production from Fruit Waste in Nairobi Kenya. **(Master's Thesis due for Submission)**

Current and Voltage data logging from Microbial Fuel Cells using ARDUINO BASED SENSORS. **(Research paper submitted for publication)**

Research papers:

Biotransformation of Biodegraded Organic waste from a Batch mode Microbial Fuel Cell to organic fertilizer- **on going.**

Kinetic Modelling of Microbial Fuel Cells Voltage data from market wastes in Nairobi City Kenya- **on going.**

Resource Recovery: Use of Microbial Fuel Cells in Electricity Production from Fruit Waste in Nairobi Kenya- **on going.**

Research Interest:

Analytical Chemistry and nanoscience

REFEREES:

- 1 Dr. Kenneth Orengo
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