

## CURRICULUM VITAE

**NAME** : **IMWENE KENNEDY OMUKADA,**  
**ADDRESS** : **PO BOX 325-50408,**  
**Kamuriai- Kenya,**  
**MOBILE NO** : **0721-644971, 0729-459364**  
**E-mail ADDRESS** : **[imwene2000@gmail.com](mailto:imwene2000@gmail.com)**

### 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.

## **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

## WORKSHOP AND TRAINING ATTENDED:

1. 10<sup>th</sup> Annual National Biosafety Conference (A Decade of Biosafety Regulatory Excellence), 2<sup>nd</sup> -5<sup>th</sup> November 2021 in Nairobi Kenya.
2. 3<sup>rd</sup> Phytosanitary Conference (Virtual Edition) 13<sup>th</sup> -16<sup>th</sup> September 2021-KEPHIS
3. Nuclear Magnetic Resonance training at the Kenya National-NMR Center, University of Nairobi, Kenya August, 2021.
4. African Material Research Society Conference on Nanotechnology Webinar August 2021
5. 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.
6. Training on HPTLC and ELISA screening at Directorate of veterinary services Labs-2020.
7. Trained on Spectroscopic techniques (ICP-MS and ICP-OES), GFAAS, FAAS, CV-AAS at Kenya Plant Health Inspectorate Service-KEPHIS Headquarters-2019.
8. LC-MS/MS, GC-MS/MS, GC-MS, GC-Detectors and UHPLC training at Kenya Plant Health Inspectorate Service Headquarters-2019
9. Training on ISO 17025 at KEPHIS Headquarters Nairobi, March 2019
10. Data Analysis using Minitab 17/19, Microsoft Excel and JMP-(SAS).

## CONFERENCE PRESENTATIONS AND PUBLICATIONS:

- **Imwene K.O.**, Mbui D.N., Kinyua A.P., Mbugua J.K., Ahenda S and Onyatta J.O. (2021). Biotransformation of Biodegraded Organic Waste from a Batch Mode Microbial Fuel Cell to Organic Fertilizer. *Journal of Bioremediation and Biodegradation an open access journal* ISSN: 2155-6199. **12(S8).**

## 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)**

## Research paper submitted for publication

- Current and Voltage data logging from Microbial Fuel Cells using ARDUINO BASED SENSORS.

## Research Papers in Progress:

- Influence of optimized parameters on voltage and power production in Microbial Fuel Cells from fruit waste in Nairobi Kenya - **on going.**
- Resource Recovery: Use of Microbial Fuel Cells in Electricity Production from Fruit Waste in Nairobi Kenya- **on going.**
- Emerging technologies for enhanced removal of residual antibiotics from source-separated urine and wastewaters: A Review- **on going.**
- Kinetic Modelling of Microbial Fuel Cells Voltage data from market fruit wastes in Nairobi City Kenya-**on going.**
- From Environment to Clinic: the role of pesticides and risk of antibiotic resistance evolution in selected market fruit wastes in Nairobi, Kenya- **on going.**

### **Research Interest:**

Analytical Chemistry, Green Chemistry and Nanoscience

### **REFEREES:**

- 1 Dr. Onyatta John Onam (Ph.D.)  
Senior Lecturer,  
P.O BOX 30197-00100, Nairobi, Kenya  
Chemistry Department, University of Nairobi  
Cell phone: +254722652159  
E-mail: [john.onyatta@uonbi.ac.ke](mailto:john.onyatta@uonbi.ac.ke)
  
- 2 Dr. Damaris N. Mbui (Ph.D.)  
Senior Lecturer,  
P.O BOX 30197-00100, Nairobi, Kenya  
Chemistry Department, University of Nairobi  
Cell phone: +254723322033  
E-mail: [dmbui@uonbi.ac.ke](mailto:dmbui@uonbi.ac.ke)
  
- 3 Dr. Vincent O. Madadi (Ph.D.)  
Senior Lecturer,  
P.O BOX 30197-00100, Nairobi, Kenya  
Chemistry Department, University of Nairobi  
Cell phone: +254720742415  
E-mail: [vmadadi@uonbi.ac.ke](mailto:vmadadi@uonbi.ac.ke)