

# **Mirara Simon W.**

## **CAREER OBJECTIVE**

To apply the knowledge, skills and experience acquired during my study, to improve efficiency and output in work environment. To make an impact and leave a legacy in any working environment.

## **EDUCATION**

**Ongoing: Pollution Research Group, University of KwaZulu Natal,**

**MSc.Eng Candidate**

**Project Title: Characterization and processing of VIP sludge**

### **Objective of study**

To determine the change in characteristics of VIP sludge after pelletization, drying and pasteurization in the Latrine Dehydration and Pasteurization (LaDePa) machine..

To determine the safety and quality of pellets from the LaDePa machine in Agricultural production and possibility of their use as a fuel after combustion. This is through determining the chemical, physical and biological characteristics of resultant pellets.

### **Practical skills gained in my MSc degree**

Determination of chemical and physical characteristics of faecal sludge in the Laboratory.

Report writing and data presentation.

Pit emptying and preparation of excreta for processing.

Operation and maintenance of machines specifically the LaDePa machine.

## **2007-2012; Egerton university**

**BSc Agricultural Engineering**

**2<sup>nd</sup> Class upper division**

**Some of courses done include:**

Introduction to environmental science	A
Engineering thermodynamic I	B
Engineering thermodynamic II	B
Mechanics of machines I	B
Soil and water conservation engineering	B
Structural design	B
Hydraulics	A
Agricultural project analysis	C

**2005**

**St Patrick hill school Kiserian**

Mathematics	A
Physics	A
Chemistry	A
Christian religious education	A
Agriculture	B+
Geography	B+
English	C

## **WORK EXPERIENCE**

**1<sup>st</sup> July 2015 to date**

**Part time lecturer: Kenya water institute (Chiakariga campus)**

I am involved in training Diploma and certificate students from water engineering, irrigation & drainage, and water resource management. Course taught include water supply engineering, hydraulics, construction technology and construction equipment's

## **15<sup>th</sup> February to 15<sup>th</sup> May 2015: SANERGY**

### **Fellow programme.**

My responsibilities were to improve the faecal material composting process and looking into water purification for water used in the composting process. I have also been in charge of running trials for a new composting machine.

## **2012-2013: District irrigation office, Turkana central, (Kenya)**

### **Internship**

My responsibilities were supervision of irrigation scheme which include planning of construction work, cost estimations, field survey, reports on meetings and design of the irrigation canals and structures. I also helped in supervision of labour and outsourcing equipment's for the contractor.

## **June 2010 - July2010: Egerton university**

### **Attachment**

Internal industrial attachment at Egerton University; Faculty of Engineering. The knowledge got from the department of water and environmental engineering was on water resources and supply, wastewater management and on construction and construction materials. In the electrical and control engineering department knowledge and skills got was on simple electronic circuits and domestic wiring. Lastly in the department of Industrial and energy engineering knowledge gained was on the materials used in fabrication and skills on arch welding, milling and machining.

## **SKILLS**

**Programming languages** Mat-lab, PLC programming, C++

**Other computer programs:**, 3D home architect, AutoCAD, civil 3D, Microsoft Project Endnote, and Microsoft office

**Other skills:** simple electrical installations, computer repair and simple maintenance.

## **INTERESTS**

- Farming: This is from my agricultural background
- Sports: The key to a focused mind is a healthy body. I am involved in athletics and cycling.
- Enjoying life: We only have one chance to live. I enjoy watching football

## **REFEREES**

### **Dr. Kahenya P.N.P,**

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