

**BUSITEMA UNIVERSITY**  
**FACULTY OF ENGINEERING**  
**DEPARTMENT OF COMPUTER ENGINEERING**  
**A FINAL YEAR PROJECT REPORT**  
**A DUMPSTER MONITORING SYSTEM BASING ON**  
**IOT**

**BY**

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## DECLARATION

I, **HAMBA YUSUFU, BU/UP/2016/246**, do hereby declare that this Project report is my original work and has never been published and/or submitted for any other degree award to any other University or institution of higher learning.

Signed .....

Date...../...../.....

**APPROVAL**

I certify that this final year project report entitled “**A DUMPSTER MONITORING SYSTEM BASING ON IOT**” has been drafted and submitted to the board of examiners with my approval:

Signature .....

**MR. ODONGTOO GODFREY**

Date...../...../.....

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## **ABSTRACT**

Uganda is facing rapid urbanization of over 6.8% per annum, leading to overcrowding and the development of slums and informal settlements with poor waste management practices as result, the dustbins in those areas and towns get over flow, terrible stench spread from waste, leading to an awful and the concern persons are informed in time.

Therefore this attracted my attention as computer engineer to come with a solution and this project is about monitoring dumpsters in real time by administrators and inform the concerned peoples (cleaners) to go and clean the areas in order to improve on the sanitation and avoid diseases from unhygienic places; in this project am using the ultrasonic sensor, gas sensors (MQ136 and MQ137),LCD Baser, Led to monitor and display the conditions in the container to users and administrators who will monitor the it remotely on the website application.

This project, I believe is of great value to city, Town council administrators and institutions to reducing on costs of transport and unnecessary costs, it can also help to improve on the sanitation their reduction in the diseases from stench smell from the dumpsters.

## LIST OF ACRONYMS

UI	User Interface
IOT	Internet of things
CSS	Cascading style shit
LCD	Liquid Crystal Display
HTML5	Hypertext markup language version 5
IT	Information Technology
SQL	Structured Query Language
LED	Light Emitting diode
PC	Personal computer
IDE	Integrated Development Environment

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