COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

Republic of the Philippines
RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY
College of Communication and Information Technology
Main Campus, Iba, Zambales

GARBAGE BIN OVERFLOW DETECTION USING GSM MODULE

A Project Design
Presented to the Faculty of the
College of Communication and Information Technology
Ramon Magsaysay Technological University
Iba Campus, Iba, Zambales

In Partial Fulfillment
Of the Requirements for the Degree
Bachelor of Science in Computer Engineering

by
Wrronda A. Ibo
Jie-Ann D. Datugan

April 2014

COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

The study hereto attached entitled

GARBAGE BIN OVERFLOW DETECTION USING GSM MODULE

has been prepared and submitted by **Jie-Ann D. Datugan**and **Wrronda A. Ibo,** who are hereby recommended for oral examination

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Abstract

The evolution of GSM in a modern world of technology contributed much in the modern communication systems. Garbage Bin Overflow Detection Using GSM (Global System for Mobile) Module paved the way to the development of a system in detecting or monitoring the garbage bins in real time.

This study made use of experimental research. The researchers conducted observations and experimentationsto gather results and check consistency of outputs so as to measure the effectiveness of the project design. It requisites the design of such software and hardware to be combined together as a system to do specific tasks gathering every bit of information to accomplished the study is important to show that is 100% working. It needs to utilize all the research materials availability for the study. Constructing and analysing the effectiveness of the device to make it more productive and accessible for the convenience of the university, the knowledge for disseminating of message to the authorized person will benefit a lot for helping and improving environment.

The proximity sensor has a good component for the detection, the MCU for faster processing, and the GSM for sending a message. The success on completing the device and work 100% results into effortless disseminating a message to the authorized person for the cleanliness of environment.

A Garbage Bin Overflow Detection using GSM Module for the university that can monitor the trash bin for the development and for the promoting a new study for the nest researchers to use this as a basis for developing a new device similar to this study.