



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**

GARBAGE BIN OVERFLOW DETECTION USING GSM MODULE

has been accepted and submitted by Engr. J. D. Datugan, Wronda A. Ibo, and Jie-Ann D. Datugan for oral examination

Engr. J. D. Datugan
April 2014

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

Engr. J. D. Datugan
Engr. J. D. Datugan

Engr. J. D. Datugan
Engr. J. D. Datugan

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

Accepted as requirement for the degree of Bachelor of Science in Computer Engineering

April 2014

by
Wronda A. Ibo
Jie-Ann D. Datugan

Engr. J. D. Datugan
Engr. J. D. Datugan

April 2014



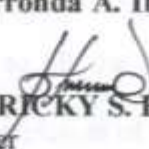
COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY



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


ENGR. RICKY S. BARRERA
Adviser

Approved by the Committee of Oral Examiners:


ENGR. DIONISIO M. MARTIN, JR.
Member



MELOJEAN C. MARAVE, MSIT
Member


ENGR. MARY JOYCE M. MYERS
Member


ENGR. MARLON V. ALCANCES
Chairman

Accepted as requirement for the degree of **Bachelor of Science in Computer Engineering**.

April 2014


MENCHIE A. DELA CRUZ, MSIT
Dean, CCIT



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

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 experimentation to gather results and check consistency of outputs so as to measure the effectiveness of the project design. It requires the design of such software and hardware to be combined together as a system to do specific tasks gathering every bit of information to accomplish 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.



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

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.

TITLE PAGE	i
APPROVAL SHEET	ii
ACKNOWLEDGMENT	iii
ABSTRACT	iv
TABLE OF CONTENTS	vi
APPENDICES	vii
LIST OF TABLES	ix
LIST OF FIGURES	x
CHAPTER	
1 THE PROBLEM AND ITS BACKGROUND	
Introduction	1
Background of the Study	2
Statement of the Problem	3
Conceptual Framework	4
Scope and Delimitations	5
Significance of the Study	6
Definition of Terms	6
2 REVIEW OF RELATED LITERATURE AND STUDIES	
Related Literature	8