VOICE-ACTIVATED SECURITY LOCKER

Anthony S. Conde
Shiella Mae M. Parel
Penny-Lei S. Trinidad

A Project Design presented to the Faculty of the
College of Communication and Information Technology
In Partial Fulfillment of the Requirements for the degree
Bachelor of Science in Computer Engineering
Ramon Magsaysay Technological University
Iba, Zambales

March 2015

COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

CERTIFICATION

This project design entitled **"VOICE-ACTIVATED SECURITY LOCKER"**, prepared and submitted by Anthony S. Conde, Shiella Mae M. Parel and Penny-Lei S. Trinidad in partial fulfillment of the requirements for the degree **Bachelor of Science in Computer Engineering**, has been examined and recommended for Oral Examination.

Thesis Committee

ENGR. RICKY S. BARRERA
Adviser

MENCHIE A. DELA CRUZ, MSIT
Member

ENGR. MARY JOYCE M. MYERS
Member

APPROVAL

Approved by the Panel of Examiners on Oral Examination on March 15, 2015 with the grade of 1.50.

ENGR. MARLON V. ALCANCES
Chair

ENGR. MARY JOYCE M. MYERS
Member

ENGR. STEPHEN LLOYD R. VELARDE
Member

ENGR. RICKY S. BARRERA
Program Chair, BSCoE

Accepted in partial fulfillment of the requirements for the degree **Bachelor of Science in Computer Engineering.**

MENCHIE A. DELA CRUZ, MSIT
Dean

Abstract

The Voice-Activated Security Locker is a security device that was designed to improve security systems and ease the effort of a certain user in opening his personal locker.

Due to the increasing rate of robbery cases, the researchers have been challenge to build something that could possibly replace the use of mechanical padlocks and doorknobs to increase the safety and security aspects of a certain container, vault or even a room.

The main goal of this project is to design and implement a locker security system based on Voice Recognition which can be utilized in banks, offices, schools and at home where most cases of robbery occurs.

In this security system, only the authentic person who had his voice registered or recorded in the device can open the secured locker. The researchers have implemented an automated locker security system based on Voice Recognition containing a door locking system triggered by a recorded voice which then be authenticated, validated and would activate the unlock the capability of the door in real time for secure access.

Using this device lessens the unsafe usage of the not-too-secured padlocks. This system is the combination of Arduino Uno, Voice Recognition Module, and Lock-Style Solenoid Valve which would create a useful security device and can later be developed long into the future.