



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

BIOMETRIC DOOR LOCKING SYSTEM

A Thesis
Presented to the Faculty of
College of Communication in Information Technology
Ramon Magsaysay Technological University
Iba, Zambales

has been prepared and submitted by Dianne S. Rempillo, Marywell C. Bacuil
and Marvin C. Viduya, who are hereby recommending for oral examination.

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

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Accepted as requirement for the **March 2018** Bachelor of Science in Computer Engineering

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COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY



Republic of the Philippines
RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY
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The study here to attached entitled

BIOMETRIC DOOR LOCKING SYSTEM

has been prepared and submitted by **Dianne S. Rempillo, Marywell C. Bacuil and Marvin Viduya**, who are hereby recommended for oral examination.

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ABSTRACT

This paper presents biometric door locking system. This study is a system designed to secure a house door with a fingerprint scanner that can be used as a security tool to open the door and send a notification to the administrator when the system denied the fingerprint for three consecutive attempts. It also captures images including the date and time when someone attempted and failed to enter the door. The administrator can add or delete fingerprints.

Biometric Door Locking System was developed using Arduino UNO Microcontroller; it is the main board of the system. The Fingerprint scanner was also need to secure the door. This SMS Module was used for sending messages when someone attempt to enter. The information was displayed and on the LCD (16*2).

This study geared towards the development of the Biometric Door Locking System that was a serve as a solution to the problem being encountered crime in different places in the Philippines.

A typical respondent in the baccalaureate degree is a BS in Computer Engineering and the respondent's perception of level of acceptability are home owners and business owners.

According to the respondents, they found that the device is moderately acceptable in terms of the following: functional suitability, performance efficiency, compatibility, usability, reliability, maintainability, portability and performance. They also found that the device is easy to use and operate.