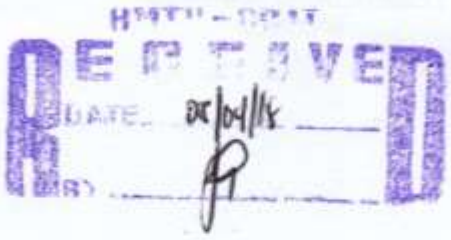
COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

AUTOMATED VENETIAN BLINDS WITH LIGHT SWITCHING SYSTEM FOR RAMON MAGSAYSAY TECHNOLOGICAL UNIVERSITY

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

by



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COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

CERTIFICATION

This thesis entitled "**Automated Venetian Blinds with Light Switching System**" prepared and submitted by **Jay Ar A Pajares, Jonel Masangkay** and **Marjorie Quilas** in partial fulfilment of the requirements for the degree **Bachelor of Science in Computer Science,** has been examined and recommended for Oral Examination.

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APPROVAL

Approved by the **PANEL OF EXAMINERS** on oral examination on March 20, 2018 with the grade of_____.

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ABSTRACT

The development of computers have a great part in this modern world of high technology. This development brought people to live more comfortably. Different gadgets, instruments, and machineries which have programmed through computers, job or work is done in lesser time.

The main idea of the design is to automate the window blinds which can be controlled automatically or manually. The design can be controlled by using a buttons. It is also linked with a light switching system to eliminate energy waste while providing a productive visual environment. The design will use a LDR (Light Dependent Resistor) to detect light coming from the sunlight. When excessive sunlight was detected by the LDR, it will automatically change the angle of the blind. This will also be synchronized with the lights. When blinds are close, more lighting is needed and vice versa. In this way the energy consumption will vary, unlike a constant amount of light would be produced all throughout the day.

Based on the results and findings, Automated Venetian Blinds with Light Switching System is highly accepted. It proves that the prototype is an alternative tool for performing chores. Continues research and development to improve the capabilities of the prototype. Better to use an accurate power supply for the improvement of the prototype also Add a timer module to set the time for automatic lifting and lowering of the blinds.