



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

CERTIFICATION

This project design entitled "RC LAWN MOWER", prepared and submitted by Vincent C. Acayan, Saira M. Morillo and Apple D. Garcia in partial fulfillment of the requirements for the degree Bachelor of Science in Computer Engineering, has been reviewed and recommended for Oral Examination.

RC LAWN MOWER

MELOJUAN C. MORAYE, MSIT

Advisor

A Thesis

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

Approved by the Faculty of the College of Communication and Information Technology in March 28, 2017 with the grade of _____

ENGR. RICHY S. BARRERA

Chairman

ENGR. IRON ELO MARTIN, JR.

ENGR. DENNIS A. OLAMIT

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

FRANCIS D. NERO, MSIT

Member

ENGR. RICHY S. BARRERA

Program, BSCE

By:

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

Vincent C. Acayan
Saira M. Morillo
Apple D. Garcia
March 2017

MENCHIEA DELA CRUZ, Ph.D.

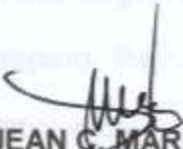
Dean



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

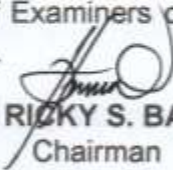
CERTIFICATION


This project design entitled "RC LAWN MOWER", prepared and submitted by **Vincent C. Acayan, Saira M. Morillo and Apple D. Garcia** in partial fulfilment of the requirements for the degree **Bachelor of Science in Computer Engineering**, has been examined and recommended for Oral Examination.


MELOJEAN C. MARAVE, MSIT
Adviser

APPROVAL

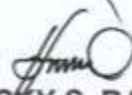
Approved by the Panel of Examiners on Oral Examination on March 28, 2017 with the grade of _____


ENGR. RICKY S. BARRERA
Chairman

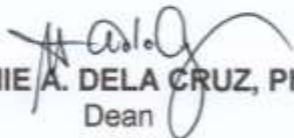

ENGR. DIONISIO MARTIN, JR.
Member


ENGR. DENNIS A. OLAMIT
Member


FRANCO D. NERO, MSIT
Member


ENGR. RICKY S. BARRERA
Program Chair, BSCpE

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


MENCHIE A. DELA CRUZ, Ph.D.
Dean



ABSTRACT

The study aimed to replace the manual way of cutting grasses by using an RC Lawn mower which can be operated in a distance with the help of an RC transmitter and receiver. The study targeted to save the backyard's owner, operator, elderly and disabled person who can't trim their backyard grasses due to difficulties in managing their time, in addition to, they are old enough to operate the manual grass cutter.

The study aimed to determine the evaluation on the product quality of the user and technical expert respondents on the proposed RC Lawn mower in terms of functional suitability, performance efficiency, compatibility, reliability, usability, maintainability and portability. Moreover, it also aimed to determine the level of acceptability of the user and technical expert respondents on the designed RC Lawn mower.

The experimental research was used in this study wherein the researchers observed the movements of the proposed design during the testing then troubleshoot some problems they encountered to make the whole design better. The qualitative research was also used to evaluate the product quality and level of acceptability of the developed RC Lawn Mower.

The evaluation of the user respondents on the product quality of the RC Lawn mower in terms of functional suitability, performance efficiency,



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

compatibility, usability, reliability, maintainability, portability is Excellent with an average weighted mean of 4.21 and Technical experts evaluated the product as Very Good with an average weighted mean of 4.18.

The level of acceptability of the user respondents on the RC Lawn mower in terms of functionality, ease of use and cost was Highly Acceptable with an average weighted mean of 4.20 and Technical experts evaluated the product as Highly Acceptable with an average weighted mean of 4.25.

In view of the findings and conclusions, the researchers recommended the following, the designed RC lawn mower is highly recommended to implement to ease the efforts of the operators, backyard owners, and elderly or disabled person who are using a manual grass cutter, it is also recommended the use of electric wheelchair motors to increase the speed of the RC Lawn mower and weight would not be a hindrance and the researchers recommend the use of DX5e Spektrum controller and an AR500 receiver to reach a longer distances.

Conceptual Paradigm

Statement of the Problem

Scope and Limitations

Significance of the Study

Definition of Terms

REVIEW OF RELATED LITERATURE AND STUDIES

Related Literature

Foreign Literature