

**UNIVERSITI TEKNOLOGI MARA**

**DEVELOPMENT OF RADIO-  
CONTROLLED (RC) LAWN MOWER**

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## **ABSTRACT**

Nowadays, the multiple development and technologies in the area of engineering is always make people's daily life easier. However, there are concerns in the convenience of lawn mowing facilities. In the present, peoples still using manual lawn mower that sold in the market which leads to many problems to the user. Currently, mowing the lawn can be so tiring and consume a bunch of time which can be physically restrictive, particularly for people with limited mobility. Through this project, it will help user to lawn mowing just using controller. It will solve a lot of problem that users are facing nowadays.

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# CHAPTER ONE

## INTRODUCTION

### 1.1 Background of Study

Nowadays, the multiple development and technologies in the area of engineering is always make people's daily life easier. However, there are concerns in the convenience of lawn mowing facilities. In present, people still using a manual lawn mower sold in the market which leads to many problems to the user [1]. Lawn mowing is one of the most crucial tasks required for most home owners or any residents who have grassy home yard. Lawn mowing required a significant investment of time and resources to accomplish the task properly [2].

Currently, mowing the lawn can be tiring and time consuming which can be physically restrictive, particularly for people with limited mobility. The current lawn mower in the market required a lot of energy in order to operate it since it is quite heavy to carry on [3]. Limitations occurs when it comes to a senior netizen or a kid who performing the mowing operation which it can risk the user [3].

Thus, the aim of this project is to develop and design a new lawn mower machine that can solve the problems that faced by the user when use the manual lawn mower. Hence there is a need of improvement and innovation from the current lawn mower. The innovation can possibly be done by having a lawn mower that can easily controlled by a remote control. Therefore, this innovated lawn mower can be operated by anyone and everywhere.

Through this project, student need to design a new model of lawn mower integrated with Radio-Controlled (RC) features by using state-of-art SolidWorks 2019. The designed Radio-Controlled (RC) lawn mower will be fabricated as a proof of concept.

The improvement from the new model of Radio-Controlled lawn mower will help the user to save their energy while mowing the grass. It is also shall assist the user by reducing force during the operation.