

UNIVERSITI TEKNOLOGI MARA

**DESIGN, ANALYSIS, AND
FABRICATION OF CEILING FAN
WIPER**

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ABSTRACT

This project aims to discover a more practical and effortless way to be applied in a household chore which is cleaning a ceiling fan. To achieve the aims that being stated, research has been made for the available products and design to be critically reviewed and study. Based on the mechanical engineering studies also being applied to this project. First, due to the seeking for a better understanding of an available product and what are the flaws, data from the internet are being used to conduct the research mainly the product review section on an internet shopping website. Second, analysing the problems that being occurred by using a form for the consumers of the product and creating the solution onto this project to solve the problems. As this project is successfully conducted, most of the problems that being faced by the consumers will be solved.

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Finally, this dissertation is dedicated to my father and mother for the vision and determination to educate me. This piece of victory is dedicated to both of you. Alhamdulillah.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Ceiling fans have served an important role in our lives, with their primary purpose being to reduce room temperature for human comfort. The location of the ceiling fan, which is beyond human control, has made the maintenance process more difficult. According to the data gathered, 9/10 people encountered difficulties as a result of the procedure, which required them to climb stairs and chairs in order to access it, posing a high risk of injury. Aside from that, cleaning is a messy, complicated, and time-consuming operation. This device is being developed in response to the problems that have been encountered. The aim of this system is to make it easier for people to clean their ceiling fans, making them more sanitary and reducing the risk of injuries.

1.2 Problem Statement

The invention of a ceiling fan has been one of the most life-changing inventions of all time. It is unquestionable about the invention of a ceiling fan due to its service of giving humans comfort at their home, workplace, restaurant, etc. We must not forget even the most advanced technology existed, the technology itself has its very own flaws. The known flaws of a ceiling fan can easily catch dust in a week. To maintain a working ceiling fan, cleaning the ceiling fan is the best way to keep it from breaking down. In addition, cleaning the ceiling fan is not a simple task due to the placement of the ceiling fan a person needed some leverage to clean it. Being in high places may encourage the risk of injuries and without a doubt cleaning the ceiling fan contain the risk of falling from a chair or ladder. Other than that, cleaning the ceiling fan will get messy due to the dust falling from the ceiling fan which is another problem for people. In conclusion, this project will solve the following problems making the task of cleaning the ceiling more safe, easier, and tidy.