

**UNIVERSITI TEKNOLOGI MARA**

**DESIGN, ANALYSIS AND  
FABRICATION OF AUTOMATIC  
CHICKEN FEEDER**

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## **ABSTRACT**

For this project, the idea of developing an automatic chicken feeder is to make sure that the chicken can be feed properly using this proper feeder. For example, most of the older people who owns chickens as their pet is unlikely to be able to feed them properly especially those who has a lot of chicken. Due to the problems that occurs during the feeding process, this project aims to design and fabricated an automatic chicken feeder that can reduce workers' operational time, affordable for domestic uses and easy for daily usage. With this innovation, the owners will no longer have to worry to feed their chicken because the feeder will do it automatically. This feeder is also designed as a zero-waste feeder, and as a result this feeder is designed to make sure all the food is consumed by the chicken and none of the food is wasted during the process. In conclusion, this automatic chicken feeder ideally will help the farmers and other types of users to make sure their poultry can be taken care using the right method.

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# TABLE OF CONTENTS

	<b>Page</b>
<b>CONFIRMATION BY SUPERVISOR</b>	<b>ii</b>
<b>AUTHOR'S DECLARATION</b>	<b>iii</b>
<b>ABSTRACT</b>	<b>iv</b>
<b>ACKNOWLEDGEMENT</b>	<b>v</b>
<b>TABLE OF CONTENTS</b>	<b>vi</b>
<b>LIST OF TABLES</b>	<b>viii</b>
<b>LIST OF FIGURES</b>	<b>ix</b>
<b>LIST OF ABBREVIATIONS</b>	<b>x</b>
<b>CHAPTER ONE: INTRODUCTION</b>	<b>1</b>
1.1 Background of Study	1
1.2 Problem Statement	2
1.3 Objectives	2
1.4 Scope of Study	2
1.5 Significance of Study	2
<b>CHAPTER TWO: LITERATURE REVIEW</b>	<b>3</b>
2.1 Benchmarking/Comparison with Available Products	3
2.2 Related Manufacturing Process	5
2.3 Sustainability/Ergonomic Related Items	8
2.4 Patent and Intellectual Properties	9
2.5 Summary of Literature	11
<b>CHAPTER THREE : METHODOLOGY</b>	<b>12</b>
3.1 Overall Process Flow	12
3.2 Detail Drawing	14
3.3 Engineering Calculation and Analysis	18
3.4 Bill of Materials	20

# **CHAPTER ONE**

## **INTRODUCTION**

### **1.1 Background of Study**

In this era, agriculture has been one of the activities that people do. Agriculture has been the backbone of the economic system for our country. It was the key development in the human civilization. Either growing crops or raising livestock, both of it can give good benefit to the farmers whether it is as subsistence or commercial. One of the common agriculture activities are raising livestock such as chickens, cows, goats and etcetera. So, for this project, the main goal is to provide a helping hand to the farmers by developing this chicken feeder. In this project, mechanical elements will be applied followed by a good design to make sure that this feeder will operate successfully according to the main idea. This feeder is designed to reduce the waste of food that took place during the feeding process. Other than that, this design is made specifically for outdoor usage. For example, can protect the feed from rain, or pests such as rats and sparrows.

### **1.2 Problem Statement**

The reason upon generating this idea on building this automatic chicken feeder is to make sure that the chicken can be fed properly using this proper feeder. For example, most of the older people who own chickens as their pet is unlikely to be able to feed them properly especially those who have a lot of chickens. So, they can easily get tired by doing so every day and by just having to push a simple button that can feed all their chickens can make the world easier for them. Other than that, for some of the people who do not own a chicken coop, they are most likely to feed their chickens at random places. Because of that, the food given can have the tendency to get wasted. So, the food needs to have a specific feeding tub or tray.