

# AUTOMATIC PET FOOD FEEDER

ABU HANIFA BIN ZULKAFI  
AHMAD BADIUZZAMAN BIN ROSLAN

A project report submitted to the Faculty of Electrical Engineering,  
Universiti Teknologi MARA in partial fulfillment of the requirements for the award  
of Diploma of Electrical Engineering.

FACULTY OF ELECTRICAL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA  
MALAYSIA

SEPTEMBER 2015

## ACKNOWLEDGMENT

Bissmillahirrahmanirrahim,

Alhamdulillah. Thanks to Allah SWT, whom with His willing giving us the opportunity to complete this proposal Final Year Project which is title AUTOMATIC PET FOOD FEEDER. This final year project report was prepared for Electrical Electronic Engineering, University Technology Mara Pasir Gudang (UiTMPG), basically for student in final year to complete the undergraduate program that leads to diploma of Engineering in Electric. This report is based on the methods given by the university

First and foremost, we have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. We would like to extend my sincere thanks to all of them.

We are highly indebted and like to express our deepest gratitude to our Final Year Project supervisor, Sir Saiful Izwan bin Suliman, for him guidance, advices and constant supervision as well as for providing necessary information regarding the project and also for their support in completing our project..

Last but not least, deepest thanks and appreciation to our parents, family, special mate of us, and others for their cooperation, encouragement, constructive suggestion and full of support for the report completion, from the beginning till the end. Also thanks to all of our friends and everyone, that have been contributed by supporting our work and help myself during the final year project progress till it is fully completed.

## ABSTRACT

The focus of this project is for pet lover to give their pets meals on time while they cannot give. This will ensure their pet will stay healthy and get enough meals. Nowadays, people are very busy to find money to survive in this era. Today, human are working at day and night so, they have no time to do any recreational activities. For example, spend time with family and also time with their pets. But what we can see, there are many among us are animals lover such as rabbits, cats and dogs. However, with the condition that busy, they forget their responsibilities towards their pets including member eat at the right time. This causes them to grow pet's health is not healthy.

This project is about to give pet their meals on time while their owner cannot give. This will ensure their pet will stay healthy and get enough meals

In this project, we can help animal lover to feed their pet in right time. This is because our project can make human work easier. Pet lover just need to prepare the food to refill the food if container finished once a days. Next, this pet food feeder are a great solution to feed your pet when you are away from house for example going to holiday, outstation. Our project can train your pet to be independent to find their own food. For example your pet just have to eat their food on their own bowl. Finally, this system performance be evaluated by comparing performance data to the theoretical.

## TABLE OF CONTENT

CHAPTER	TITLE	PAGE
	<b>CANDIDATE DECLARATION</b>	iv
	<b>ACKNOWLEDGEMENT</b>	v
	<b>ABSTRACT</b>	vi
	<b>TABLE OF CONTENTS</b>	vii
	<b>LIST OF FIGURE</b>	viii
	<b>LIST OF TABLES</b>	ix
<b>1</b>	<b>INTRODUCTION</b>	1
	1.1 Background Study	1
	1.2 Problem Statement	2
	1.3 Objectives	2
	1.4 Scope Of Study	3
	1.5 Project Contribution	4
<b>2</b>	<b>LITERATURE REVIEW</b>	5 - 7
<b>3</b>	<b>METHODOGY</b>	8
	3.1 Flow Chart of Project Progress	8 - 9
	3.2 Block Diagram	10
	3.3 Flow Chart of Project	10 - 11
	3.4 Equipment And Component	12 - 20
<b>4</b>	<b>RESULT &amp; DISCUSION</b>	21
	4.1 Result And Discussion Final Project 1	22 - 23
	4.2 Result And Discussion Final Project 2	24 - 27
<b>5</b>	<b>CONCLUSION&amp;RECOMMENDATION</b>	28
	5.1 Conclusion	28
	5.2 Future Work	28
<b>6</b>	<b>PROJECT PLANNING</b>	29
	<b>REFERENCES</b>	30
	<b>APPENDICES</b>	31 - 49

## **CHAPTER ONE**

### **INTRODUCTION**

#### **1.1 BACKGROUND STUDY**

Nowadays, people are very busy to find money to survive in this era. Today, human are working at day and night so, they have no time to do any recreational activities. For example, spend time with family and also time with their pets. But what we can see, there are many among us are animals lover such as rabbits, cats and dogs. However, with the condition that busy, they forget their responsibilities towards their pets including member eat at the right time. This causes them to grow pet's health is not healthy.

This project is about to give pet their meals on time while their owner cannot give. This will ensure their pet will stay healthy and get enough meals. They just need to set the timer for the meal. The weight sensor will sense the weight in the bowl to make sure the meal that been provided has been eaten by pet. If the weight meals in the bowl keep constant, the machine will stop provide give meal for that time and skip it.

In this project, we can help animal lover to feed their pet in right time. This is because our project can make human work easier. Pet lover just need to prepare the food to refill the food if container finished once a days. Next, this pet food feeder are a great solution to feed your pet when you are away from house for example going to holiday, outstation. Our project can train your pet to be independent to find their own food. For example your pet just have to eat their food on their own bowl.