



AN AUTOMATIC FISH FEEDER

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SF
414
.M84
2015

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MARCH 2015

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ACKNOWLEDGEMENT

Above all, the utmost gratitude goes to the Most Gracious and Most Merciful God, Allah SWT for giving us the guidance and blessing throughout the project.

There are no proper words to convey our deep gratitude and respect for our final year project supervisor, Madam Masmaria Abd Majid for his invaluable advice, guidance and her enormous patience throughout the development of this project. We will be forever grateful fo her professionalism, knowledge and experience sharing in this study. This report would not have been the same as presented here without her.

A big thanks to En. Amar Faiz and En. Nur Faizal because they are helping us a lot on programming. Without them we cannot complete our project with a perfect programming. At first we had a problem in programming which is the LCD did not display as we are expected.

Finally, we would also like to express our gratitude to our loving parent and our fellow friends who helped, support and given us encouragement to face this challenging project until to the end.

ABSTRACT

An automatic device to feed fish at predetermined amounts of food and time. Fish feeder combines mechanical and electrical system to control fish feeding activity. This device consists of pellet tank, distributor and a stand. The dispensed food will be controlled by a motor which situated under the tank. A propeller design that differs by angle of force applied to spread the food, will distribute the pellet onto wider water surface which is controlled by the outlet gap. A control system attached to this device allows the fish to be fed at predetermined food amount and time. Timer is used to control the motor which run the gear and propeller to increase functional efficiency. The fish feeder is successfully fabricated and tested. Feeding can be done at predetermined interval of time and accurate amount of food with larger surface area covered by pellet is obtained. Furthermore the waste of fish food in pond is reduced efficiently.

CHAPTER 1

INTRODUCTION

1.1 PROJECT BACKGROUND

The title of the project is automatic fish feeder. This project basically is not a popular project and the product also are hardly to find because this is the new invention of this decade. Many of us cannot see the importance of this project but for a fish lover it helps a lot for them to keep their fish alive while the user are not at home for a period of time.

Some of fish lover may be worried about their fish if the user had to leave their house and aquarium for a period of time. So that, this project will make the user satisfied using this project and not to worries when the user had to leave their house. This is basically the main objective of this project. In this country, there are a lot of fish lover that are willing to spend hundreds even thousands of their money to breed fish.

The price of fish is not as expected. Some type of fish may reach thousand Ringgit Malaysia. This is because the fish is rarely to find and get caught. No wonder fish lover spending to thousands for the fish. The most popular ornamental fish in Malaysia is 'Ikan Arowana'. This fish can reach to RM 300,000. For the fish lover it just okay to spend their money for their hobby because it is their patient.

For these reason that have been stated, it comes to a project for final year project. The expectation for this product is it can be commercial to the society. As it have been stated, this project is not well known and not much of this product at the market or shop. There are few improvements that have been done in this project.