

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE**

**AND TECHNOLOGY**

**DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING**

**BSc Electrical and Electronic Engineering**

**PROJECT PROPOSAL**

**PROJECT TITLE:**

**AUTOMATED FOOD DISPENSER FOR PETS**

**Submitted by:**

**MUKONESI BERNICE – ENE211-0235/2016**

**PROJECT SUPERVISOR**

**MR. KIVUVA**

*A Final Year Project Proposal submitted to the Department of Electrical and*

*Electronic Engineering in partial fulfillment of the requirements for the award of a*

*Bachelor of Science Degree in Electronics and computer Engineering.*

**JULY 2021**

**DECLARATION**

This project proposal is my original work, except where due acknowledgement is made in the text, and to the best of my knowledge has not been previously submitted to Jomo Kenyatta University of Agriculture and Technology or any other institution for the Award of a degree or diploma.

SIGNATURE………………………………………… DATE ………………………………

**NAME: REG No.:**

**TITLE OF PROJECT: AUTOMATED FOOD DISPENSER FOR PETS**

**SUPERVISOR CONFIRMATION:**

This project proposal has been submitted to the Department of Electrical and Electronic Engineering, Jomo Kenyatta University of Agriculture and Technology, with my approval as the University supervisor:

**NAME OF SUPERVISOR……………………… ( )**

**SIGNATURE: ……………………………… DATE: ……………………………………….**

**ABSTRACT**

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**LIST OF TABLES**

**LIST OF ACRONYMS AND ABBREVIATIONS**

1. AFD – Automated Food Dispenser
2. APPA - American Pet Products Association

**CHAPTER ONE**

**1. INTRODUCTION**

**1.1. Background Information**

“If you want a friend in Washington, get a dog,” advised the former U.S President Harry S. Truman. The pet industry has been and is still one of the most essential industries in the market. Pets are kept for various reasons including entertainment, their appearance, intelligence and others due to their personalities. The relationship between humans and pets has increased over the years[1]. Pets offer great companionship and have been noted to have a great contribution to the social health, well-being and even physical health of their owners. A further analysis demonstrated that some health issues including high survival rates from myocardial problems, reduced risk of cardiovascular problems and a reduced risk to asthma have been accredited to people who have pets. A study by APPA National Pet Owners Survey, 2017-2018, revealed that more than 60% of the households in most developed countries have a pet, which leads to a pet population of more than 140millon. It is evidently clear that pets have a huge significance in most families. (ref) with some families treating pets as part of the family. In addition, pets like dogs provide security hence enhancing safety.

Despite this, most pet owners are quite busy therefore posing a serious problem on how the pet is reared. The feeding is especially a crucial factor in the life of pets, and becomes a challenge when the owner is a very busy person or needs to take a vacation.

**1.2. Problem Statement**

**1.3. Project Justification**

**1.4. OBJECTIVES**

**1.4.1. MAIN OBJECTIVES**

**1.4.2. SPECIFIC OBJECTIVES**

**CHAPTER TWO**

**2. LITERATURE REVIEW**

**2.1.**

**CHAPTER THREE**

**3. METHODOLOGY**

**3.1**

Methodology is supposed to help any person interested in your work to be able to reproduce the work by following the exact steps that you followed in the implementation. This being a proposal, it should guide one into implementing the project

For the proposal, things like a block diagram, flow chart are expected.

**CHAPTER FOUR**

**4. EXPECTED RESULTS**

**DIVISION OF ROLES**

**(This page only applies to those in joint project)**

|  |  |  |  |
| --- | --- | --- | --- |
| STUDENT 1 NAME AND REG NO | | STUDENT 2 NAME AMD REG NO | |
| Proposal | | | |
|  | |  | |
| Implementation | | | |
|  | |  | |
|  |  | |  |

**BUDGET**

**(sample)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Description | Quantity | Rate | Amount |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |
|  |  |  |  |  |
| TOTAL | | | |  |

**TIME-PLAN**

**(sample)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ACTIVITIES** | **SEP** | **OCT** | **NOV** | **DEC** | **JAN** | **FEB** | **MAR** | **APR** |
| **Documentation** |  |  |  |  |  |  |  |  |
| **Proposal Writing** |  |  |  |  |  |  |  |  |
| **Literature Review** |  |  |  |  |  |  |  |  |
| **Proposal Presentation** |  |  |  |  |  |  |  |  |
| **Design and coding** |  |  |  |  |  |  |  |  |
| **Hardware**  **configuration, testing and adjustment** |  |  |  |  |  |  |  |  |
| **Final Report writing** |  |  |  |  |  |  |  |  |
| **Final Presentation** |  |  |  |  |  |  |  |  |

**REFERENCES**

[1] B. E. Leslie, A. H. Meek, G. F. Kawash, and D. B. McKeown, “An epidemiological investigation of pet ownership in Ontario.,” *Can. Vet. J.*, vol. 35, no. 4, pp. 218–222, 1994.