UNIVERSITI TEKNOLOGI MARA

DESIGN AND FABRICATION OF SLIDING PLATFORM COMPONENTS OF DROPBOX DROPBOX

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ABSTARCT

Nowadays, a large number of people buy their things online. Packages can be left in the parcel drop box during the postal delivery process, acting as a temporary storage facility for our package after delivery. The current package drop box may be able to serve the straightforward goal of serving as a momentary storage spot for our belongings or packages, but it is not capable of safeguarding our packages from theft. The main objectives of this project are to design and fabricate the sliding platform of the smart parcel drop boxes. The methodology of the study includes creating a project flowchart, brainstorming ideas and collecting information for the design of the Sliding platform of Smart parcel Dropbox. The project aims to produce a complete CAD modelling of the Sliding Platform using Solidworks 2021 software, including detailed design, assembly drawing, exploded drawing, BOM and cost analysis. The project's intended result is that the sliding platform will automatically slide inside and outside of the main body whenever someone wants to put a package inside or remove one from the parcel drop box. This sliding platform can support items weighing 15 kg and the limit is 25 kg. This project's main significance is to introduce the concept of contactless delivery between the recipient and the delivery person and to act as a prototype for a novel concept and technology that the courier industries can employ to create parcel drop boxes in the future.

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CONFIRMATION BY SUPERVISOR 3
AUTHOR'S DECLARATION 4
ABSTRACT **5**
ACKNOWLEDGEMENT 6
TABLE OF CONTENTS 7
LIST OF TABLES 9
LIST OF FIGURES 10

CHAPTER ONE : INTRODUCTION **11**
1.1 Background of Study 11
1.2 Problem Statement 12
1.3 Objectives 12
1.4 Scope of Work 12
1.5 Significances of Study 12

CHAPTER TWO : LITERATURE REVIEW 13
2.1 HISTORY OF PARCEL DROP BOX 13
2.2 .CONSIDERATION OF BULDING A PARCEL DROP BOX 14
2.2.1 Security 14
2.2.2 Size 14
2.2.3 Design 14
2.3 THE DELIVERY REVOLUTION 15
2.3.1 Beginning Of Parcel Post 15
2.3.2 Courier Industry in The Modern Era 16
2.3.3 Parcel Delivery in Pnademic Era 16
2.4 TECHNOLOGY OF PARCEL DROP BOX REVOLUTION 17
2.4.1 Past 17
2.4.2 Present 17
2.4.3 Future/ Componet need in sliding platform 17
2.4.4 Cad modelling software 17
2.4.5 Drawer Slides 17

CHAPTER THREE : METHODOLOGY **19**

3.1 Introduction 19

3.2 Flowchart FYP I 20

CHAPTER FOUR : RESULTS AND DISCUSSION **23**

4.2 Preliminary Result 25

4.2.2 Morpholigical Chart 24

4.2.3 Pugh Chart 26

4.3 Design by Solidwork 28

4.4 Flow Chart FYp II 29

4.5 Analysis FYP II flowchart 35

4.6 Gantt Chart 37

4.6.1 Gantt Chart FYP I 37

4.6.2 Gantt Chart FYP II 38

4.7 Designing of CAD modelling 39

4.8 Analysis the product 41

4.8.1 Static analysis of sliding platform 41

4.9 Result and Fabrication 43

CHAPTER FIVE : CONCLUSION AND RECOMMENDATIONS **47**

5.1 Conclusions 47

5.2 Recommendations 48

REFERENCES **49**