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TECHNOLOGY BLUEPRINT

UNIVERSITI TEKNOLOGI MARA MALAYSIA

TECHNOLOGY BLUEPRINT TITLE (FRUIT PICKER)

Faculty	:	**Faculty of Health Science**
Program Code	:	**HS243**
Group	:	**7A**
Course	:	**Technology Entrepreneurship**
Semester	:	**7**
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TABLE OF CONTENTS

COMPANY'S LOGO

the Twister fruit Picker™

CHAPTER 1

1.0 PRODUCT DESCRIPTION

1.1 Introduction

After initial observation towards farmer activity, the team had chosen a product that we believe can contribute to help farmers. The product is Fruit Picker. Nowadays, farmers have difficulties to collect the fruits especially with higher trees such as orange, guava and mango. Thus, they have hire huge amounts of labours to do the work. This product is suitable to enhance the harvesting activity and replacing the manual work to collect the fruits.

1.2 Purpose of development

The purpose of the product development are:

- To innovate the Fruit Picker which can help farmers to collect the fruit during harvesting activity
- To control the Fruit Picker by using smartphone

1.3 Product Concept

- To help farmers to collect the fruit during harvesting activity
- To replace the manual work in harvesting the fruits

1.4 Application

1.4.1 Functions

- Fruit recognition sensor – Used to detect ripe and damaged fruits.
- Motion sensor- Used to alert the user on any barriers along the ways.
- Camcorder - Helps us to visualize the location of the trees. The camera was installed with video recorder so we can record the video data.
- Load weight sensor –Used to determine the weight of fruits inside the container and the maximum limits for weight is 40kg.

- Fruity Control Apps – Used to control the movement of this machine by using smartphone.

1.5 Unique features

The uniqueness of the product for availability in Malaysia market consists of:

- Fruit Recognition sensor
- Motion sensor
- Camcorder
- Load weight sensor
- Fruity Control Apps

1.5.1 Picture description