

UNIVERSITI TEKNOLOGI MARA

**DEVELOPMENT OF A PROTOTYPE
ROTATING VACUUM**

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ABSTRACT

This project is about a vacuum sealer that can help small entrepreneurs their domestic food manufacturing process. This machine can help to reduce minor problems and sometimes significant problems that hold back some of entrepreneurs by reducing the production to completely seal the product to maintain the freshness of the product and increasing the productivity of the production of the product. This project includes the designs and analysis for how the machine is fabricated so that it can function well to solve the problems that the small entrepreneurs faced. For the expected result, it is expected to meet the manufacturing requirement and function is achieved through out manufacture process.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

As people look for alternative ways for living a healthy life, food is undeniably one of the most significant parts to achieve healthy lifestyle. There is something that human body needs to maintain a steady process for human body to function such as vitamins, iron, and fibers for domestic works[1]. To preserve these significant nutrients in food, a way of keeping the food edible for a long moment of time came in handy for this era of community that like fancier and more complex edible to satisfy their craving for something new. Sometimes, one way to keep the food to be edible for a long time is to reduce the amount of air surrounding the food because air contains many bacteria and organisms that are bad for preservation of food.

1.2 Problem Statement

Towards the fourth industrial revolution, there are a lot of advanced machines that already have been created to solve up the problems that have been lingering in society. In this project, the problem really shows when the work to seal the food properly that can slow the process of the work. Available food sealer, however, are typically manually operated to arrange the package into the machine before the package can be sealed. Such sealer present slowing the flow of the works and difficulties to produce results in big quantities.

To produce big quantities of products in small times requires a