

UNIVERSITI TEKNOLOGI MARA

MEC300

**DESIGN AND FABRICATE OF MINI COIN SORTER
MACHINE**

IKHWAN HAFIZ BIN HAYARONI

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SUPERVISOR:

TS. IR. DR. AB AZIZ BIN MOHD YUSOF

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ABSTRACT

Mini coin sorter machine is a device that will manage or sorting coin into its own category. Due in every coin that has in our home just keep in one container without know the category of each coin. Our community has a problem according to unorganized issue in their daily life. This machine exactly to help our community to solve the unorganized coin at their home.

This proposal included objective that need to be achieve at the final such as design the prototype and fabricate the machine of the project. Besides, in this proposal will study about what mini coin sorter machine is, what concept or mechanism of the machine, how the fabricate process is going and how the result of the machine operates. From the material that will use to fabricate the product and what component and how many of that need to apply. An addition the calculation such as cost, and engineering calculation need to calculate and has been shown in this dissertation report.

Other than that, this dissertation also discusses about advantages and limitations of the mini coin sorter machine to see how far the mini coin sorter machine can operate. Also, will be state the manual operation for the users and the safety precaution of the machine. According to the machine that fabricate from the low-quality material and limitations utilities at workplace, it will affect the final product of the final year project and need to discuss about recommendation. With this discussion in this dissertation report some improvement can be made in the future.

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CHAPTER 1

INTRODUCTION

1.1 BACKGROUND OF THE PROJECT

All citizens were educated from child to take care of money and keep it well. The idea to keep money in daily life is used the “Piggy bank” method. At school children always told to save money and the balance of the money that children get from parents to spend in that day will be keep in “Piggy bank”. Other method is we can keep it by using the existing bank we have in our country. Each bank has their money sorter to we keep efficiently. The first idea was introduced in the 50’s, which is some company in Japan, Kokei (Glory), published the idea about automatic counter for both coin and banknotes to facilitate and streamline the target to achieve of bank employee. It’s easy to we keep the money as well, but what about the coin that we have?

The issue that we have about this idea is many people in this world have problem to store the small coin and will lose it. From year-to-year statistic for the coin lose in one year is every day and it involves children and adults. Around a way we don’t realize that coin we lost it from child can reach a thousand ringgit if we keep it until now.

Our recently solution of this issue is reminding the people to always put in the coin in the “Piggy bank” every time we saw any coin near us. With this method we can store our coin safely without worry about the lost issue. But with this method we can see properly how many or what we put in our “Piggy bank”. This idea is very smart to make it as our main tank to keep our coin, but we must do some improvement to make it more efficient. So, from the experience and observation that I have, that solution that I propose is we keep the coin by using mini coin sorter machine for our money management at home.

By combining the “Piggy bank” method, our idea of mini coin sorter machine can be introduced and developed to reality. The aim of this project is to develop the mini coin sorter machine and introduce the smart idea to facilitate the user keep their coin at home. The “Piggy bank” will be our main tank to collect and keep the coin in insert section. The idea of this tank is to make mini coin sorter machine can accommodate a big amount of coin at one time. It will go to sorting section, which is we can receive the output with efficiently, neat and orderly.