

UNIVERSITI TEKNOLOGI MARA

**DESIGN AND FABRICATION OF
CLOTHES FOLDING MACHINE**

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ABSTRACT

The clothes folding machine will be built and designed is to fulfill the routine duty of folding clothes since this activity is generally a demanding task for most people, therefore it's a good idea to develop a machine that can lessen the effort and time necessary in folding clothes. Not only that, this machine also will be less expensive and more affordable than other clothing folding machine on the market. This machine is an example of a semi-automatic system that blends mechanical and electrical control systems. The machine will be created to serve the common people, particularly housewives so its design fully represents the manual method of folding clothes, specifically following the steps of folding the sleeves, folding the bottom of the shirt, and finally attempting to flip the shirt to its upper face on the way of providing it to the controller. Shirts were chosen as the first sample that the machine mechanisms were developed to fold.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Folding clothes is one of the most monotonous and repetitive activities you will encounter. Typically, a person folds their garments by hand. People nowadays have extremely tight schedules in their daily lives. Household chores, irrespective of gender, have been tough for many. This chore is challenging for many individuals, especially housewives, and might be grueling it depends on the quantity of clothing as well as the number of individuals living in a household. However, some people do enjoy folding their clothes as a way to kill time on a lazy Sunday afternoon. It could be a soothing repeated activity, or it could appeal to their systematized nature. Even so, some individuals are not pleased with the activity. For some of these people, folding clothes is a tedious task that is better avoided by simply placing the garments in a vacant drawer. Nevertheless, there are several positive aspects of properly folding your clothing which might create the effort worthwhile. For instance, folding your clothes will spare more storage capacity. Whether you are putting the clothes in a drawer or prepping for a trip, you will obtain storage capacity by minimizing the amount of space each item takes up. It is more convenient to keep everything in one spot instead of having to look for a new spot that does not match the rest.

The goal of this project is to fabricate a machine that can solve this space and time-consuming issue. The semi-automatic folding machine necessitates the user to place the t-shirt on the folding plate and push the button. The t-shirt then will fold itself. Furthermore, because the size and shape of the folds are precisely the same, this machine will not only assist us with time management but will also maintain our clothes more orderly. Given the aforementioned factors, regeneration for the manual method of folding clothes is sorely needed.