

**UNIVERSITI TEKNOLOGI MARA**

**DEVELOPMENT OF A PROTOTYPE  
MANUAL FURNITURE LIFTER**

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## **ABSTRACT**

People nowadays often change their position of furniture, whether it is at their living room, kitchen or even in their own bedroom. This is one of the reasons why there are more and more people complaining about their back problems. Due to these problems, a furniture lifter is invented. A furniture lifter is a device designed to assist in the lifting of heavy furniture items. It consists of a flat platform securely hold the furniture in place. The device is operated easily for users to manoeuvre the furniture around without the need for heavy lifting. The furniture lifter is a time-saving and labour-saving tool that can help reduce injuries and damage to both the furniture.

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# **CHAPTER ONE INTRODUCTION**

## **1.1 Background of Study**

A furniture lifter is a device used to lift and move heavy furniture, such as sofas, desks, and beds, with minimal effort. Before this, people move their heavy furniture by hand. Even now there are still people who carry their furniture by hand so this will lead to backache. Even worse, there are some people got their slip disc because of it. This device typically consists of a handle and a set of wheels or rollers that attach to the bottom of the furniture piece. The user can then use the handle to lift and move the furniture, reducing the strain on their back and making it easier to rearrange a room. Some furniture lifters also come with additional features, such as adjustable legs to level out uneven surfaces.

## **1.2 Problem Statement**

The rationale behind this product innovation lies within a common problem faced by households which is hard to move heavy furniture or any heavy items. Bigger items like a fridge or dining table will become more cumbersome to move while at the same time, consumes too much space within the house if it is kept. If the item is expensive (it probably is), it would also be quite a waste to simply give or throw it away.

Other than that, when it comes to renovation or changing the design of our house, people often use a lot of energy to move the furniture. This could lead to a lot of injuries that are serious and may be hospitalized. By far the most common injury from moving furniture is a back injury. Back strains are caused by the improper lifting of extremely heavy objects, especially when you are not physically conditioned to the activity.

Due to these problems, a furniture lifter will be design to not only save energy and space for the user, but also promote a sense of sustainability within the furniture. This furniture lifter can be used for all users. This furniture lifter will be simple to use and easy to manage. This furniture will also be user friendly so that it does not cause conflicts among other people and themselves.