

UNIVERSITI TEKNOLOGI MARA

**AUTOMATIC SHOE CLEANING
MACHINE**

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ABSTRACT

This project is presenting an implement of Arduino system for automatic control to pleasant shoes cleaner. By using Arduino, the labour doesn't need to worry about tired with the automatic brush it will cleaning without doubt. Furthermore, the cost spending will be worth. This project discussed about cleaning a shoes, Arduino in general, open source electronic platform based on easy-to-use hardware and software. In conclusion based on the developed system, authors discussed the advantages and points need to be considered when working on the project such as the manufacturing consideration that need to be used for making this project.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Shoes is footwear that protect human foot while walking on the road. There are a lot types of shoes design that can be found everywhere. Every shoes have its own extra function rather than only protect foot, shoes also have its own specification function such as boots for skiing and sport shoes for sports. Even though, the real function of shoes to protect our foot but since beauty industry want to make every product is pretty even if it means to take out the main function of the shoes like heels.

However, after using the shoes for a while, sooner or later the shoes will be dirty. People need to clean their shoes in order to use it back again unless they want to wear it while it dirty and smelly. To clean the shoes, it required a lot of energy and time, it is fine if only one shoes needed to be clean but if its more than one it's going to be burdensome. Not only just that people have option to clean their shoes while sit or stand but this two option will lead to one problem which is pain. Sit for too long will cause the back pain while standing up for too long will cause blood pooling. In addition, if people continue to have that pain it can lead to more serious pain. Other option people can do is shoes laundry but it will cost the money which is quite expensive. This really not recommended for people who wants to save their money. Hence, it is quite challenging for people to clean their shoes if they don't have time or quite money or maybe they have lot of shoes that need to be clean.

These problems can be reduced by using an automatic shoes cleaner machine. An automatic shoes cleaner machine which will be made by using aluminium material and have a function that can clean the shoes. There will brush attached at each side, front and backside of machine for remove the dirt. The use of this machine will only need to switch on the machine and put the dirty shoes at the centre then observed the process until the shoes is clean.