



**UNIVERSITI TEKNOLOGI MARA**

**DEVELOPMENT OF A PROTOTYPE  
PAINT HUT**

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## **ABSTRACT**

Spray painting is a way for painting object or material to give it a new look or a fresh look. However, spray painting is not an easy job that can easily been done. It may take few steps and ways to complete spray painting an object or materials. In order to overcome the difficulties of spray painting, a machine was designed to ensure that spray painting can easily been done and give an excellent output. This Paint Hut is designed so that users can place the object and material that they want to spray paint into this machine and pour the paint that they want to use into the paint chamber and start the machine. This machine will help to spray painting the object or material evenly throughout the surfaces. But due to the size of this machine, the object or material that can be spray painted by this machine are limited to only suitable size objects only. Nevertheless, this object may save the user time and energy to spray painting tiny objects by themselves. After doing research and surveys, this machine can be proven to help regular users that use spray paint on their daily routines. This machine will be mad by using mild steel as the frame part and the mechanism for this machine consists of motor-driven pump, nozzle, tube and other parts that will be needed in spray painting.

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Second, I was so honored to be able to complete my final year project successfully and achieved my goal to invent something useful that can inspire bigger sides either to refurbish my works or take my project as an idea for the future. This project is dedicated to all the painters out there that have a hard time handling spray paint.

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## TABLE OF CONTENTS

	<b>Page</b>
<b>CONFIRMATION BY SUPERVISOR</b>	<b>2</b>
<b>AUTHOR'S DECLARATION</b>	<b>3</b>
<b>ABSTRACT</b>	<b>4</b>
<b>ACKNOWLEDGEMENT</b>	<b>5</b>
<b>TABLE OF CONTENTS</b>	<b>6</b>
<b>LIST OF TABLES</b>	<b>8</b>
<b>LIST OF FIGURES</b>	<b>9</b>
<b>LIST OF ABBREVIATIONS</b>	<b>11</b>
<b>CHAPTER ONE INTRODUCTION</b>	<b>12</b>
<b>1.1 Background of Study</b>	<b>12</b>
<b>1.2 Problem Statement</b>	<b>13</b>
<b>1.3 Objectives</b>	<b>13</b>
<b>1.4 Scope of Study</b>	<b>14</b>
<b>1.5 Significance of Study</b>	<b>15</b>
<b>CHAPTER TWO LITERATURE REVIEW</b>	<b>16</b>
<b>2.1 Benchmarking/Comparison with Available Products</b>	<b>16</b>
<b>2.2 Review of Related Manufacturing Process</b>	<b>18</b>
<b>2.3 Patent and Intellectual Properties</b>	<b>19</b>
<b>2.4 Summary of Literature</b>	<b>22</b>
<b>CHAPTER THREE : METHODOLOGY</b>	<b>22</b>

# CHAPTER ONE INTRODUCTION

## 1.1 Background of Study

Spray painting is a work to spray paint an object whether to give it a new look, fresh look or refurbishing old objects. Spray painting used motor to pump the paint in a high pressure and dispersed out of the nozzle. The nozzle of the spray paint controls the output shape of the spray whether vertical or horizontal shaped. Spray painting may give you a difficult time, if you do not have any experiences handling spray paint.

Furthermore, even if you have enough experiences handling spray paint, this work still might put you in a messy situation due to the splash of the paint or oversprayed. Because using spray paint is not a tidy job that you can mess around without having any paint on you. But this machine surely will not be guaranteed to save you from the paint or whatsoever, but it decreases the chances of it.

In addition of the difficulties of spray painting, numerous machines have been designed to enlighten users on spray painting so that this work can be easily accessed for any person. In view of the factors above a machine to precisely spraypainting small objects is needed.

The aim of this study is to spray paint small object easily by only putting the objects into the machine and letting the machine do its job. This is to letting users enjoy spray painting without making any messes and wasting their time to spray paint the object to get even paint on the surface.