

FACULTY OF ELECTRICAL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA TERENGGANU

FINAL REPORT OF DIPLOMA PROJECT

SMART PORTABLE PLATFORM

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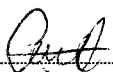
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"I declare that this report entitled "*SMART PORTABLE PLATFORM*" is the result of my own group research except as cited in the references. The report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree."

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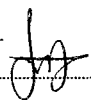
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## ACKNOWLEDGEMENT

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the name of ALLAH S.W.T The Most Gracious and Most Merciful – peace and blessing of ALLAH be on his last messenger, Prophet Muhammad S.A.W. who has shown us the right way through the darkness of ignorance and kufr.

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## ABSTRACT

"Smart Portable Platform" contains two motors that can move left to right, and, up, down. The project is built because we wanted to upgrade in terms of versatility, security and comfort that will facilitate our daily lives especially during classroom sessions. In this project, we combine the three types of circuits which are motor circuit, PIC circuit and control circuit. First, the control circuit will send commands to the PIC16F877A will process and transistor will activate the relay type "SPDT (Single Pole Double Throw)" and move the motor power window. Basic operation of this project is moving platform using only the switch. The platform can turn left and right at a certain angle similar to the 180. Platform height can also be modified. Smart Portable platform can be proved to be a very useful tool during classroom sessions.

**TABLE OF CONTENTS**

<b>CHAPTER</b>	<b>CONTENTS</b>	<b>PAGE</b>
	<b>DECLARATION</b>	<b>ii</b>
	<b>DEDICATION</b>	<b>iii</b>
	<b>ACKNOWLEDGEMENTS</b>	<b>iv</b>
	<b>ABSTRACT</b>	<b>vi</b>
	<b>ABSTRAK</b>	<b>vii</b>
	<b>TABLE OF CONTENTS</b>	<b>viii</b>
	<b>LIST OF FIGURES</b>	<b>x</b>
	<b>LIST OF SYMBOLS</b>	<b>x</b>
	<b>LIST OF ABBREVIATIONS</b>	<b>xi</b>
<b>1</b>	<b>INTRODUCTION</b>	
	1.1 Introduction	1
	1.2 Objectives	2
	1.3. Scopes and Limitation	2
	1.4 Problem Statement	3