



**AN OVERVIEW OF THE CIM IMPLEMENTATION**

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A thesis submitted in partial fulfillment of the requirements for the award of  
Bachelor Engineering (Hons) (Mechanical)

**Faculty of Mechanical Engineering  
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**MARCH 2004**

## **ACKNOWLEDGEMENT**

In the name of ALLAH S.W.T., the most gracious and merciful. I praise Him and His noble Prophet Muhammad S.A.W. I would like to acknowledge with grateful thanks to ALLAH who has enabled me to complete this final project in time.

Here, I would like to express my heartfelt gratitude and appreciation to project advisor, Mrs. Nor Hayati Saad for her endless help and guidance throughout this final project that enabled me to complete this project.

My appreciation is also extending to Mr. Suhaimi Buyong and staffs of UMW Engineering Sdn. Bhd. for giving an information and explanation during the visit to have a look on the element of Computer Integrated Manufacturing (CIM) in that company.

Finally, I would like to express my deepest gratitude to my lecturers, staffs in Faculty of Mechanical Engineering UiTM, my parents and all to my friends who are directly or indirectly involved to contribute in this final project.

“May ALLAH Bless You All”

## **ABSTRACT**

This final project is a continuation from last semester Final Year Project. Computer Integrated Manufacturing (CIM) can be defined as the use of Computer Systems and Automation Systems to operate and control production. This definition splits production into two separate activities: the Information Processing performed by Computer Systems and the Physical Activities performed by Automation Systems. Information Processing tasks include: the design of components; planning the production of the components; controlling the operations in production and performing various business related functions necessary for a Manufacturing Establishment. The Physical Activities are performed by a wide range of devices, often automatically controlled, including; Machine Tools, Assembly Stations, Robots, Material Transfer Systems, Automated Material Handling and Storage Systems and Inspection Systems for Quality Control. For this project, a questionnaire was distributed to the related company. The purpose of the questionnaire is to define the level of CIM implementation in Peninsular Malaysia. It is defined that the companies were still not fully implemented the CIM elements. An industrial visit had been organized to the company that has the highest implementation of CIM elements.

## **TABLE OF CONTENTS**

<b>CONTENTS</b>		<b>PAGE</b>
	PAGE TITLE	1
	ACKNOWLEDGEMENT	ii
	ABSTRACT	iii
	TABLE OF CONTENTS	ix
	LIST OF TABLES	viii
	LIST OF FIGURES	x
	LIST OF ABBREVIATIONS	xii
<b>CHAPTER I</b>	<b>INTRODUCTION</b>	
	1.1 Background of Project	1
	1.2 Objective of Project	1
	1.3 Scope of the Project	2
<b>CHAPTER II</b>	<b>LITERATURE REVIEW</b>	
	2.1 Introduction to CIM	3
	2.2 Historical Developments in Computer Integrated Manufacturing	5
	2.3 Present Market Condition	7
	2.4 Developments in CIM Research	7

## **CHAPTER I**

### **INTRODUCTION**

#### **1.1 Background of Project**

Computer Integrated Manufacturing (CIM) is the integration of all the processes necessary to manufacture a product through the use of computer technology.

It computerized integration of all aspects of design, material selection, planning, manufacturing, production, quality assurance, management and marketing. In manufacturing, CIM is integration through the centralization of knowledge. In its fullest implementation, CIM integrates all manufacturing information, not just the manufacturing data for products, but also the business procedures, corporate goals, and management structure of a manufacturing enterprise.

#### **1.2 Objective of Project**

The objectives of the project are:

1. To study what is Computer Integrated Manufacturing in the context of: