

DEVELOPMENT OF A COMPUTER-INTEGRATED ASSEMBLY LINE: A CASE
STUDY IN CAR TOYS ASSEMBLY

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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This thesis report explains comprehensively about the concept of Computer-Integrated Manufacturing (CIM) which is applied to an Assembly line in a laboratory. The project of this thesis aims to create a prototype of a Computer-Integrated Assembly Line which may be implemented in the real industry. Other than that, the Assembly Line can be used for study purposes of students especially Industrial Engineering students. This report shows the design for both hardware and software installation that are used by the prototype. The result and analysis of the prototype performance test are also included to indicate the performance of the system applied in the prototype. In the end, conclusion and recommendation of the system performance are explained for further research purposes.

Keywords: Computer-Integrated Assembly Line, Assembly Line, Prototype



DEDICATION

I dedicate this thesis to my family especially my mother and my father who have been supporting me since the beginning of this thesis project and to anyone who finds the benefit of this thesis.



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First of all, I want to give a lot of thanks to Allah SWT who always helped me in distress while I was working on this thesis project. His blessing and guidance kept me on track that made this thesis a lot easier to be finalised.

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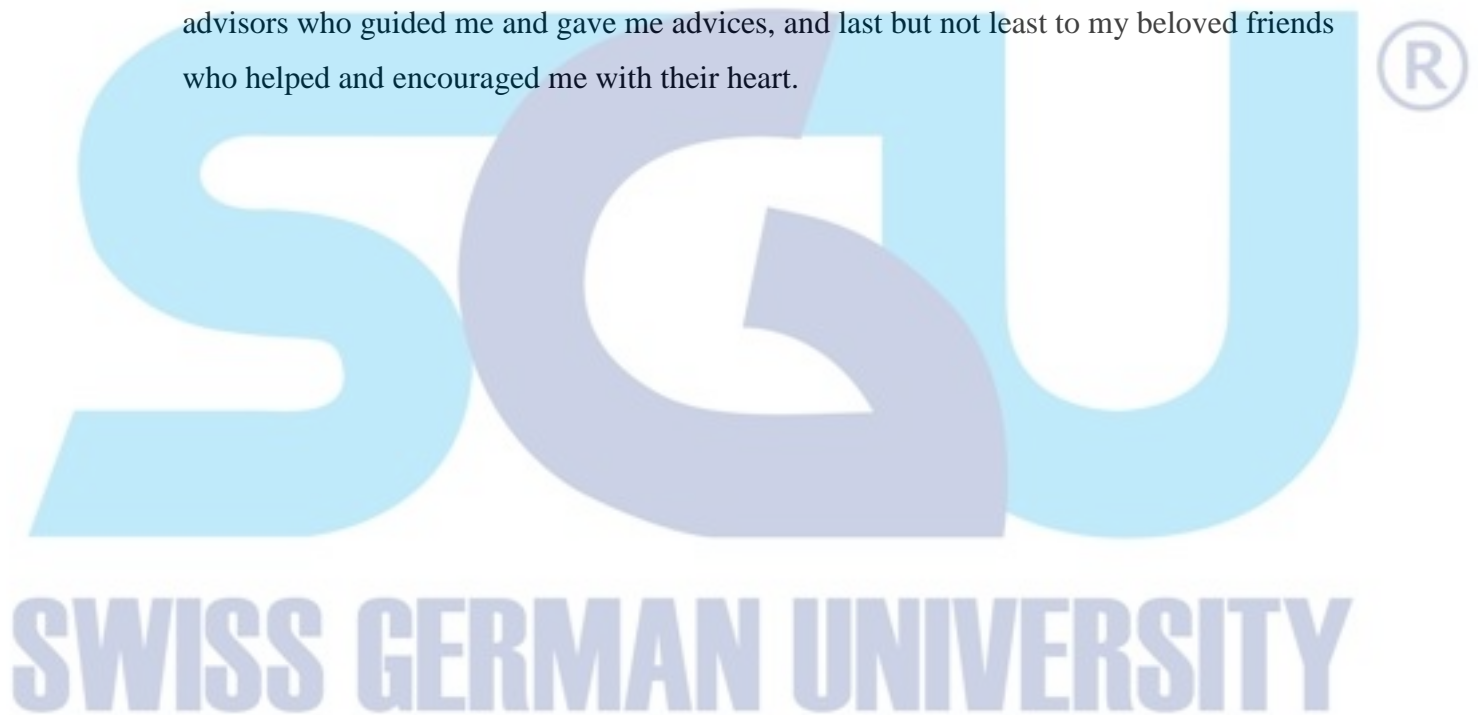


TABLE OF CONTENT

ABSTRACT	3
DEDICATION	5
ACKNOWLEDGEMENT	6
TABLE OF FIGURES	10
CHAPTER 1 – INTRODUCTION.....	12
1.1. Background	12
1.2. Problem Identification.....	12
1.3. Research Objectives	12
1.4. Significance of Study	13
1.5. Research Questions	13
CHAPTER 2 – LITERATURE REVIEW.....	14
2.1. Anthropometry	14
2.2. Time and Motion Study.....	15
2.2.1. Time Study.....	15
2.2.2. Motion Study	15
2.3. Modbus.....	17
2.4. SCADA	18
2.5. Lean Manufacturing	18
2.6. Computer-Integrated Manufacturing.....	21
2.7. Practical Module	21
2.6.1. Module Definition.....	21
2.6.2. Practical Module Contents	22
CHAPTER 3 – RESEARCH METHODS.....	23
3.1. Research Methodology.....	23
3.1.1. Problem Identification	24
3.1.2. Computer-Integrated Assembly Line Design	24
3.1.3. User Interface Design.....	24

3.1.4.	Performance Test	24
3.1.5.	Test Result and Analysis	24
3.1.6.	Device Manual Book and Experiment Module Design	24
3.1.7.	Conclusion, Recommendation, and Further Research	24
3.2.	Design Justification	25
3.2.1.	Software Design Justification	25
3.2.2.	Hardware Design Justification	25
3.3.	Components of Design	25
3.3.1.	Hardware Components	25
3.3.1.	Software Components	33
CHAPTER 4 – DESIGN OF COMPUTER-INTEGRATED ASSEMBLY LINE		34
4.1.	Assembly Line Workstation Design	34
4.2.	Data Architecture	36
4.3.	Kanban Card Design	37
4.4.	System Design	39
4.5.	Design of User Interface	51
4.5.1.	Raspberry Pi User Interface	51
4.5.2.	Assembly Line Process Monitor User Interface	52
CHAPTER 5 – SYSTEM TEST AND ASSEMBLY LINE IMPROVEMENT		57
5.1.	Alpha Test	57
5.2.	Beta Test	57
5.2.1.	Beta Test Initial Condition	58
5.2.2.	Beta Test Result and Analysis	59
5.2.3.	Beta Test Findings	63
5.3.	Improvement of Assembly Line	65
5.4.	Implementation to Real Industry	69
CHAPTER 6 – CONCLUSION AND RECOMMENDATION		70
6.1.	Conclusion	70
6.2.	Recommendation	71
6.3.	Further Research	71

BIBLIOGRAPHY	72
APPENDICES	73
APPENDIX A	74
APPENDIX B	75
APPENDIX C	84
CURRICULUM VITAE	85

