

TABLE OF CONTENTS

ABSTRACT.....	3
VALIDITY SHEET	4
ORIGINALITY STATEMENTS SHEET	5
PREFACE	6
TABLE OF CONTENTS	7
LIST OF FIGURES	9
LIST OF TABLES	10
LIST OF ATTACHMENT.....	12
LIST OF TERM	13
CHAPTER I INTRODUCTION	14
I.1 Background	14
I.2 Final Project Problem Formulations.....	19
I.3 Final Project Objective	19
I.4 Final Project Limitation.....	20
I.5 Final Project Benefit.....	20
I.6 Final Project Report Structure	20
CHAPTER II THEORITICAL BASIS	22
II.1 <i>Flow Chart</i>	22
II.3 Risk Definition	23
II.4 Type of Basic Risk	23
II.5 <i>Risk Assessment</i>	24
II.6 <i>Failure Mode Effect Analysis (FMEA)</i>	24
II.7 Reason of Approach Selection	28
BAB III RESEARCH METHOD	30
III.1 Conseptual Model	30
III.2 Systematic Research.....	31
III.2.1 Premilinary Stage	33
III.2.2 Data Collecting and Processing stage	33
III.2.3 Analyzing and Designing Stage	35

III.2.4 Summary and Suggestion Stage.....	35
BAB IV INTEGRATED SYSTEM DESIGN.....	36
IV.1 Collecting Data	36
IV.2 Processing Data.....	36
IV.2.2 <i>Failure Mode and Effect</i> (FMEA) Analysis Stage	43
IV.2.2.1 Identify the <i>Severity</i>	43
IV.2.2.2 Identify the <i>Occurance</i>	53
IV.2.2.3 Identify the <i>Detection</i>	60
IV.2.2.4 Calculations <i>Risk Priority Number</i> (RPN).....	62
IV.2.3 <i>Risk Treatment</i>	64
IV.3 Design proposed of <i>Risk Treatment</i>	65
IV.3.1 Design Requirement.....	65
CHAPTER V RESULT ANALYSIS AND EVALUATION OF PROPOSED DESIGN	69
V.1 Analysis of highest RPN result	69
V.2 Analysis of Proposed design result	70
V.3 Company Validation for scale criteria of <i>Severity, Occurrence, Detection</i>	74
V.3.1 Validation for scale <i>Severity</i>	74
V.3.2 Validation for scale <i>Occurance</i>	75
V.3.3 Validation for scale <i>Detection</i>	76
CHAPTER VI CONCLUSION AND SUGGESTIONS.....	77
VI.1 Conclusion	77
VI.2 Suggestions	78
VI.2.1 Suggestion for PT Toyota Motor Manufacturing Indonesia.....	78
VI.2.2 Suggestions for the next writer	78
Bibliography.....	85