LASKAR: 3D TACTICAL WAR GAME IN MALAYSIA ENVIRONMENT

By

NUR SHAZWA RINA BINTI HASHIMI

ACKNOWLEDGEMENT

In the name of Allah, Most Gracious, Most Merciful. Alhamdulillah, thanks to the Almighty for His bless and for giving me the strength, health, and opportunity to complete my final year project in a given time. I would like to express my deep and sincere gratitude to my industrial supervisor Captain Dr. Nur Atiqah Sia Abdullah, for her guidance, knowledge and support to me since the last semester until finished. Her invaluable help of wide knowledge and experiences throughout the development of this project have been of great value for me in order for me to complete the project as well as for me to ready to face the real future. I am also wanted to express my deep grateful to my class lecturer, Dr. Marina binti Ahmad for her guidance and support throughout the development process.

I would like to give all my worth to my family and friends for their support throughout the journey for my finishing this project. Not to forget, I offer my regards and blessings to all of those who supported and guided me during the development. Their kindness of sharing knowledge and experiences will not be forgotten and will be kept to face the challenging working life in the future. Finally, I would like to express my gratitude to UiTM as an academic institution that has given the opportunity to pursue my dreams and capabilities to its maximum length.

ABSTRACT

Tactical is one of the strategy that used in military in war that will determine if they win, lose or fair. War game is a military exercise that test or enhance the tactical expertise. The current game in Malaysia which is to help the way to improve this tactical war knowledge are not in 3D genre and also does not have the Malaysia environment context. The aim of this project is to make player understand the basic tactical war strategy by using 3D game with the Malaysia environment. This project utilizes Unity 3D, 3Ds Max and C# language to create the full 3D game involve the Malaysia environment, which is the palm oil state area. The evaluation of this project is done by using pre-test and post-test, to get the user understanding on the tactical war and the user interface satisfaction to make sure that the 3D environment is same like Malaysia environment and the game interface are understandable. This project content the obstacles that teach about the tactical war game in 3D Malaysia environment. The limitation of this project is there are not many sources that can be found about the real tactic in war and military strategy since the information are confidential. The significance of this project is it this game can be played by anyone who wants to gain knowledge and experience about tactical war game in Malaysia 3D environment. The most important thing, instead of testing the real war situation in military, this game can be played. It will reduce man power, time constraint and also the cost in real world simulation.

TABLE OF CONTENT

CONTENT

PAGE

SUPERVISOR APPROVAL	
SULERVISOR ALL SULERVISOR ALL	n
STUDENT DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	V
TABLE OF CONTENTS	vi
LIST OF FIGURES	ix
LIST OF TABLES	xii
LIST OF ABBREVIATIONS	xiii

CHAPTER ONE: INTRODUCTION

1.1	Background of The Problem	1
1.2	Problem Statement	1
1.3	Aim	3
1.4	Objectives	3
1.5	Scope of Project	3
1.6	Limitation	4
1.7	Significance of Project	4
1.8	Summary	4
	-	

CHAPTER TWO: LITERATURE REVIEW

2.2	War Game			
	2.2.1	Tactical War Game	6	
	2.2.2	Importance of Tactical War Game	8	
	2.2.3	Game Element	9	
	2.2.4	Game Genre	12	

2.3	Malaysia war game	12
-----	-------------------	----

2.4	Similar war game			14	
	2.4.2 2.4.3 2.4.4	MAS A Tom Clancy's The Division Command and Conquer Heroes and Generals Ultimate General: Civil War Comparison of similar war gam	SWORD	14 17 18 19 20 22	
2.5	Summa	ary		25	
CHAPTER T	HREE	METHODOLOGY			
3.1	Metho	dology System Model		26	
	3.1.2 3.1.3 3.1.4 3.1.5	1	2	27 28 29 30 30 31 32 33	
3.2	Summ	ary		34	
CHAPTER F	OUR:	GAME DEVELOPMENT			
4.1	Game	Flow		35	
4.2	4.2 Game Design Documentation for Game Elements				
	4.2.1	Environment 4.2.1.1 Terrain 4.2.1.2 Palm Oil Tree 4.2.1.3 Obstacles 4.2.1.4 Village		37 39 45 52 55	
	4.2.2	Character 4.2.2.1 Main Character: Third 4.2.2.2 Non-Player Character 4.2.2.3 Weapons	Person View	57 58 59 60	