

## Guided Learning GTP1302

## Student Initiated (SI) Project Proposal

Name of Student:	Perakam Jayadithya			Admin	2300355A
				No.:	
School:	□ASC	Current	□1.1	Diploma:	Information
	□BUS	Year of	□ I.2		Technology
	⊠IIT	Study:	⊠2. I		
	□DES		□2.2		
	□ENG		□3.1		
	□HSS		□3.2		
Project Category:	☐ Entrepreneurship & Innovation			If you	
	☐ Health & Fitness			have	
	☐Sustainable Development			chosen	
	□Arts			others,	
	□Language			please	
	□ Cultural			specify:	
	☐Social Issues				
	⊠Technology & Science				
	⊠Media Creation				
	□Others				
Project/Competition	NA				
Name:					
Personalised Project	Virtual Reality Game Develo	pment			
Title:					
Target beneficiary/	NA				
beneficiaries (if					
applicable):	Learning Goal: E.g. to work on my m	arketing skills			
My Learning Goals	Learning Goal: E.g. to work on my marketing skills.  Please state at least 1 learning goal. Refer to Sample Proposal in LMS. 2 or 3 goals will suffice.				
	I want to learn more about 3d modelling such as making humanoid models, rigging and also making a model based on a reference image. I also want to learn more about				
	mathematics and physics through programming the game logic in the game engine.				
	Furthermore, I want to learn about interactions of a player with the virtual world.				
	Lastly, I want to learn about utilising SDKs (such as the SteamVR SDK in the project's				
	context) to perform the nee	ds of my app.			, ,
What is my project	What am I going to do? (50 words)	)			
about?	I will be creating a virtual rea	ality game. I wil	l learn create a	nd animate my	own 3D
	models for most of the assets. I will also learn the basics of game design and				
	development, specifically for virtual reality games. The final game will likely be a				
	stationary game (e.g. a target shooting game, beatsaber)				
	How am I going to do it? (100 wor	-			
	I will learn 3D modelling and rigging in blender through free tutorials on sites such as				
	YouTube. I can also use assets from an asset store for background models such as				
	trees. For game development, I can preferably use the Unity game engine since I have some experience with both the engine and scripting language (C#). I can use either the				
	SteamVR SDK or the Oculus SDK since I own a Meta Quest 2 virtual reality headset.				
	The programming side can b				•
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	I can also use LinkedIn Learning with my student account to learn more. Throughout the project, I will ask my learning facilitator for help when needed.
What will I show as evidence of my	E.g. Report, prototype, checklist, glossary of terms, reflection, draft designs, surveys, survey analyses, interview transcripts, etc. (50-100 words).
learning in my project portfolio?	Since throughout the project I will be following tutorials, I can show the mini projects I did and explain the skills I learnt from them. I can show the assets I made and the source code for the final project. I can include comments/documentation for the code to show that I understood what I was doing. Furthermore, I can have a writeup to show what knowledge I utilised while making the final deliverables. Then, I can have a short video to demonstrate the gameplay. Lastly, I can create a playable executable of the game.  Share how this project is important or meaningful to you personally.
What else would I like to say about my project?	E.g. I have never done marketing before. Now I have a product which I would like to market. I really hope to pick up some useful skills and ideas on how to market my product and get opportunity to meet some industry expert to mentor me.
	While my diploma has programming and development, it does not include much about game development. However, the reason I had an interest in programming and computer science when I was young was due to my interest in game development. Hence, I feel that I am missing some important concepts such as game design and 3D modelling which I do not learn in my current diploma. Furthermore, I have a great interest in mathematics and physics, and I feel that I can learn more about them through this project. I feel that I have been losing proficiency in those skills since my diploma does not utilise those skills much.