IPL 301 Learning Contract

Student name: Max Harris Project: Steam Eagles

In the space below, briefly describe the activities, duties, or projects involved in this project:

Design, Planning, Coordinating, and Implementing the Steam Eagles game.

Communicating with teammates and platytesters.

Field Supervisor Signature:	Date: 2/6/2023
UIS Supervisor Signature:	Date: 1/31/2023
Student Signature:	Date: 1/31/2023

Category	What is your goal?		
	I want to understand the theory of parallel programming and how it applies to game mecahnics and visual effects programming		
	I want to gain a better understanding of realtime fluid simulations and the techniques used to make fluids as interactive as possible		
What willl you do to achieve this goal?		Who/What will help you achieve this goal?	
I will take notes on .NET multi-threading libraries, as well as the high-level parallel programming task API.  I will also look at GPU based parallel processing solutions, particular the use of compute shaders to perform general processing on the GPU.		Udemy courses on C# Task parallel Library,Github (example projects)	
I will attempt to build a physically inspired gas simulation that runs on the CPU so that it can interact with gameplay elements (must iinteract with gameplay elements, not just a purely graphics based simulation, as that problem has been solved for the most part)			
How will you evaluate the success of this go	al?		
I should ble able to explain the theory behind pa programming in my final assesment and be able how it is tied to theory behind fluid simulations			

I should be able to program a multithreaded system that functions in a real-world development setting

Analyze feedback from my supervisor in my final

assessment.

Category	What is you	What is your goal?		
Career-Education	I want to learn how game development feels in the real world, and primarily I want to know how people actually finish games.  I want to improve my game development methodologies and learn how to integrate them with my software development methodologies			
What will you do to achieve this goal?		Who/What will help you achieve this goal?		
Over the course, I will try to head a team of developers of 3-5 developers in attempt to produce a completed game demo at the end of the course		Other developers who are willing to work with me		
I will use task tracking software to manage progress, focusing on fast iteration cycles and task prioritization		Codecks (task tracking),Obsidian (reflections)		
I will reflect on tasks as I complete them, analyzing not only how the task went but also if it is the proper task				
after completion of tasks I will reflect on the result of the task and how that result will impact the future direction How will you evaluate the success of this goal?				

In the final assessment, I should discuss the improved techniques and game development methodologies. Ideally I should be able take those lessons and identify how they apply to projects at different stages, scales and different team sizes

I should compare the work and outcome of the original game jam and assess how my development methodologies have improved.

If I am able to complete and publish versions of the game throughout the course I can reflect on what I did to get that version published. I can explain in my final assessment how my development methodolgy has improved and why those improvement will lead to further successes in the future.

Category	What is you	r goal?		
Self-Improvement	I want to improve my ability to focus, or more clearly I war improve my ability to recover from distractions		ly I want to	
What will you do to achieve this goal?		Who/What will help you achieve th	is goal?	
I will always make sure I have a short and me goal set-out during work, and each day verify I did aligns with those goals		I will use software that tracks and logs my switching tasks. That coupled with feedbate team members on how often I get distract	ack from my ted. I shou	
I will periodically do reflections as a net to catch myself when get distracted. improving my abillity to recover from a distraction and return to the priority task		the support of my other teammates to po on a tangent.	int out whe	
How will you evaluate the success of this	goal?			
At the end of the course, I should have obtained new insights into how my brain works and developed a better understand how to focus and get work done.				
This should be evaluated by analyzing my jou them in the final assessment	ırnals and disc	ussing the insights gained from		