

Game Development in Unity Using Oculus Quest VR

By Christopher Todd

Advisor: Dr. Daehee Kim





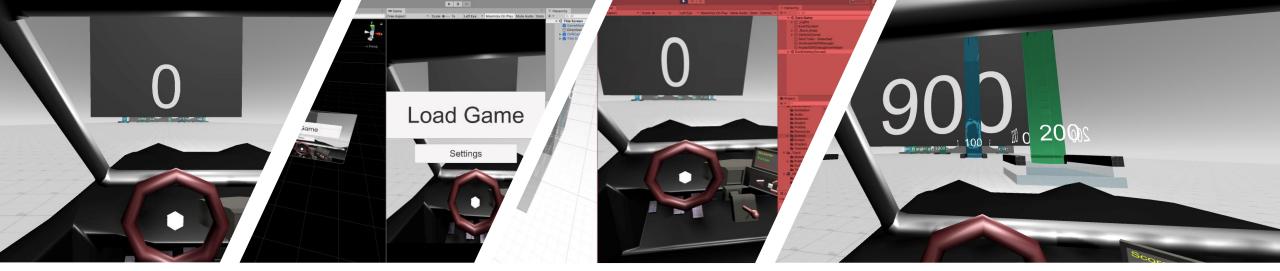
- What is Virtual Reality?
- What was I hoping to accomplish?
 - Development
 - Implement
 - Procedural game
- Related works?
 - iRacing for VR immersion
 - Borderlands for Procedural Generation

iRacing

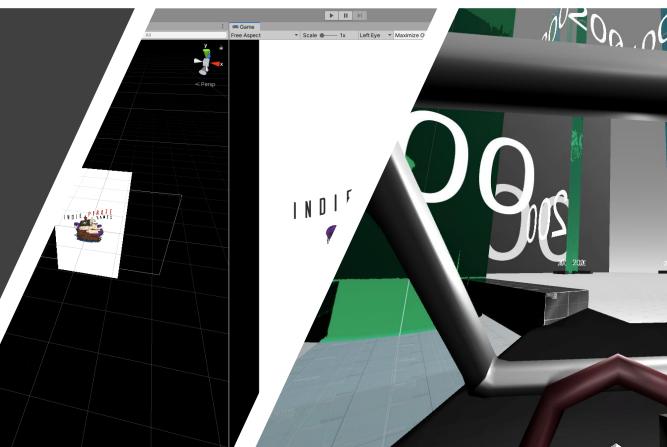
Borderlands

13 / 21

+ 3129



- What was I Able to Accomplish?
 - Setting Up a New Project
 - Understanding Synchronization
 - Learning What Was Different
 - Utilizing What I Discovered
 - Implementing What I Discovered

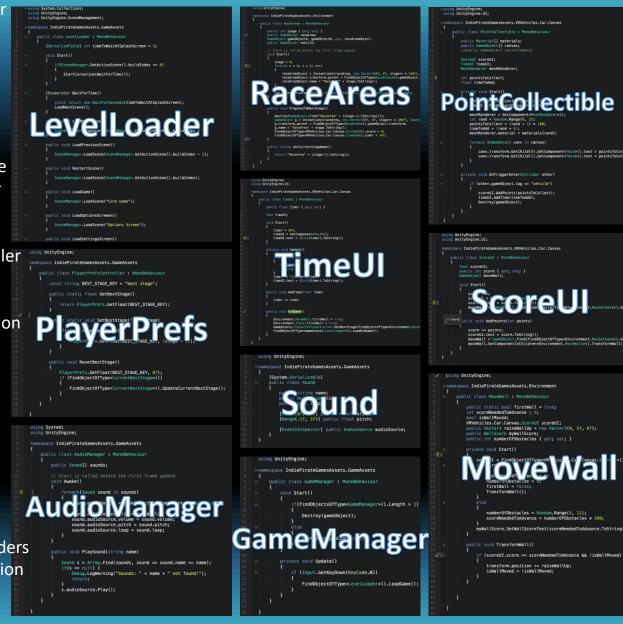


- Implementing My Game via Code
 - 830 lines of code in 29+ scripting classes
 - Code Will Be Available via Email
- Finishing the Game

Scripts .cs

EndGameCollider MoveWall RaceAreas StageCollider Track WallScore AudioManager CurrentBestStage GameController GameManager LevelLoader PlayerPrefsController Sound **UserMessage BonusPointDetection** GeneratePoints PointCollectible **BreakLights** CarAudio CarController CarUserControl ScoreUI SkidTrail SpeedUI SteeringWheelColliders **SteeringWeelRotation Suspension**

> TimeUl Whe<u>elEffects</u>





Questions & Answers

Christopher Todd (ctodd1@csustan.edu)

Advisor: Dr. Daehee Kim (dkim10@csustan.edu)