

Creative Work Sample Written Description
Timely Shot – Level Mansion Rescue

Yu Zhou

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1. Why Timely Shot?

I chose to submit *Timely Shot* as my creative work sample because it represents both my skills and my personal initiative in game design and development. This project began as a spark of inspiration after watching the intense, rhythmic combat scenes in John Wick 4, which left a deep impression on me. When I started formally studying game design last year, I returned to this idea and committed to transforming it into my own game. *Timely Shot* became my first fully designed game, and I am extremely proud of what it represents.

In *Timely Shot*, I took on multiple roles: game system design, level design, narrative design, interaction design, and guiding the audio and visual elements. From my initial one-page concept to multiple iterations and latest demo, I learned a tremendous amount with each step. I also had the invaluable experiences of working closely with my tutor, Song Huang, as programmer who provided guidance on programming and project structuring; Xinyu Zhang, as 2D artist who studied Visual Communication Design in undergrad and currently pursuing a master degree at China Academy of Art; Shangshu (Mint) Shi, as sound designer and composer, who currently working in Atlanta's American Gaming Systems. This collaboration with all these talented people, communicating and conveying my designs while assisting them in producing assets, allowed me to refine my design skills and taught me how to communicate effectively across different areas: coding, art, and audio.

Timely Shot is not only demonstrating my capabilities as a game designer but also highlighting my ability to collaborate with others, iterate on feedback, and turn a creative vision into a polished product and the translation of my skill from interactive media and motion picture to game designs. This project is a true reflection of my dedication to game design, as it allowed me to push the boundaries of what I could achieve and learn.

Specific Task Distribution:

Game Design: Yu Zhou	Gameplay programmer: Song Huang
Level Design: Yu Zhou	Visual Effects: Song Huang
Narrative Design: Yu Zhou	Sound Engineering: Song Huang, Shangshu Shi
Interaction Design: Yu Zhou, Song Huang	Sound Design: Yu Zhou, Shangshu Shi
UI Design: Yu Zhou	Composer: Shangshu Shi
Title Design: Yu Zhou, Xinyu Zhang	Project Management: Yu Zhou
Character Design: Yu Zhou, Xinyu Zhang	Game Tester: Lenin Zhou, Lejie Lin, Borui Dong.
Character Artist: Xinyu Zhang	
Environment Artist: Xinyu Zhang, Yu Zhou	

2. Rules & Mechanism

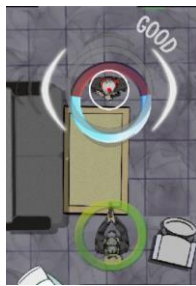
a) Key Features

i. Rhythm Shooter

Player can deal higher damage to enemies when the timing of firing match the rhythm of music. When player misses the timing, weapons deal only basic damage; when the timing is good, weapons deal more damage; when timing is perfect, weapons deal maximized damage.



Bad Timing



Good Timing



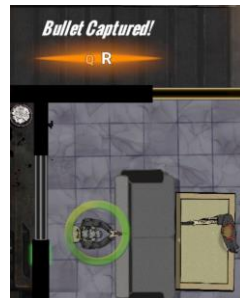
Perfect Timing

ii. Blocking

All weapons are equipped with Kinetic Shield, which captures bullets fired at player and holds for a short amount of time. When a bullet is captured by the shield, players need to react to it by finishing a quick time event to avoid damage. The size of shields, capture force and recharge rate may vary based on the weapon equipped.



Blocking starts



QTE Success



QTE Failed

b) Rule

i. Gameplay & Game Flow

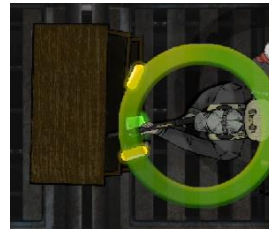
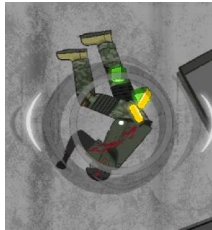
Timely Shot is a 2D top-down rhythm shooter game. Player takes on the role of an assassin on a path of revenge, seeking clues to find the murderer of his wife while uncovering a bigger conspiracy behind it.

Player can deal higher damage by shooting in sync with the rhythm, while also paying attention to block incoming bullets. Perfectly matching the rhythm will boost the player's damage, allowing them to finish enemies faster.

Player will start each game with limited health and backup ammunitions. Health can be restored by picking up HP pack, and ammunitions can be restored by picking up Ammo pack. Enemy will drop both HP pack and Ammo Pack when eliminated, these packs can also be found by looting the environment.



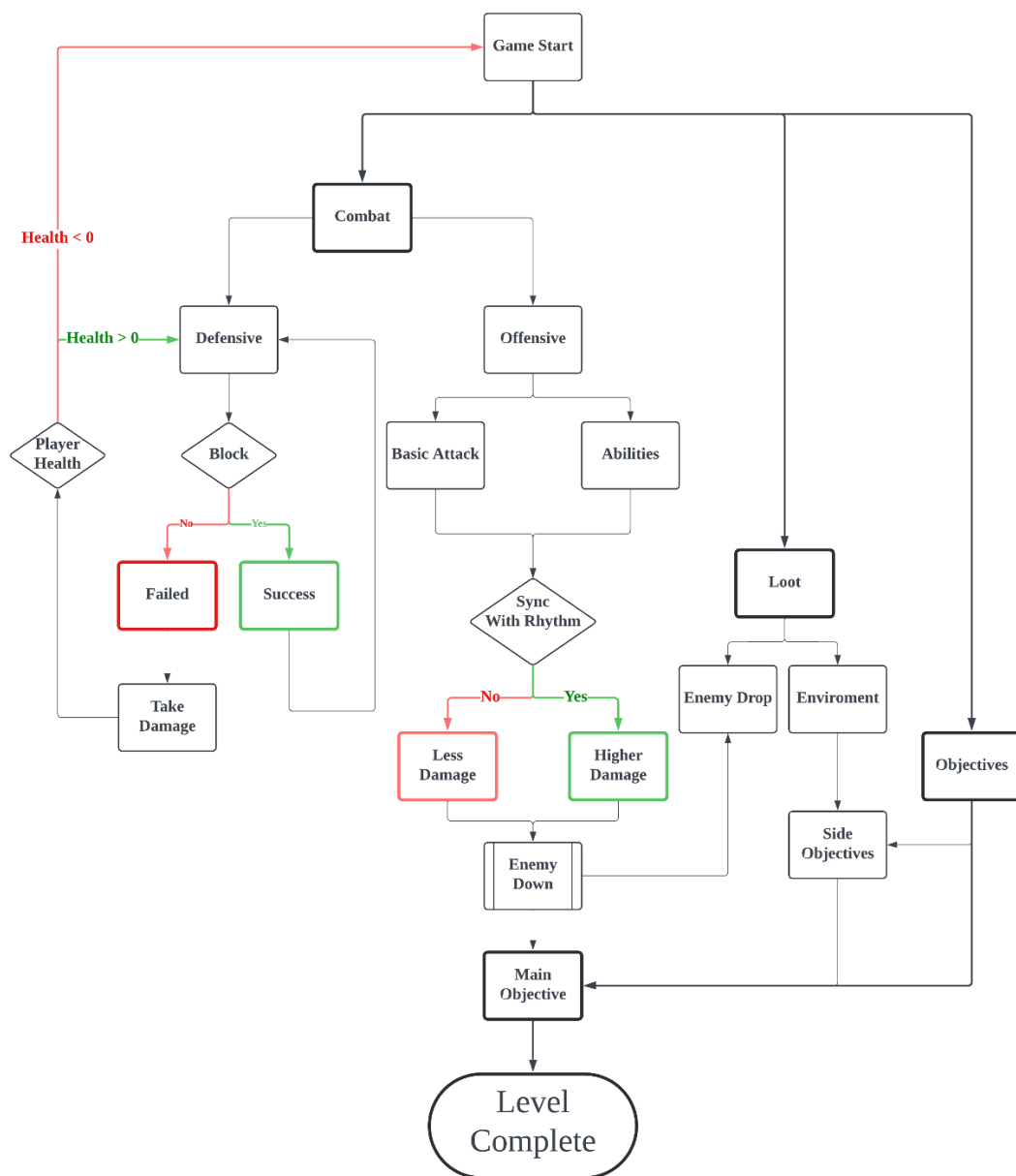
Enemy Drops



Environment Loots



Game Flow Diagram:



ii. Characters Stats & Game Modes

Main Character:

Health	Speed	Revolver DMG	Cap	Pistol DMG	Cap	Shotgun DMG	Cap
20	4	3/5/7	6	2/3/5	7	4/7/10	5

Enemies:

Type	Health	Speed	Weapon	DMG	Characteristics
Punk	5	4.5	Pistol	2	Fast movement with low health
Guard	8	3.5	Revolver	4	Average enemy
Elite	15	3	Revolver	4	Moderate armor.
Heavy	18	2	Shotgun	8	Low fire rate but heavy armor.

Boss: Fixed Base Dual Machine Guns Turret

Health - Core	Health - Machine Gun	Machine Gun DMG	CD	Electrified Wire DMG	CD	Punk Spawn Rate
110	60 * 2	1 * 7 (burst)	4	4 (per hit)	7	Every 6 seconds

Game Modes:

Modes	Description
Raid	A liner level in which provides player a clear one end route to follow and fight.
Siege	Player needs to eliminate waves of enemies in a limited space until the countdown ends or retrieve certain objects.
Boss	Player faces one or more powerful enemies in a limited space.

c) Enemy AI



Patrol



Alert & Injured



Seek Cover



Fire Back



Tracing Player



Eliminated & Drop

3. Narrative & Level

a) World Setting

J was born in Central America in 2027, where gangs ruled and the government did little. After his parents were killed, he was raised by a mysterious gang. As an adult, he worked as a DJ while doing hitman jobs for the gang. In year of 2052, J met and married W, daughter of the gang's leader. 2 years later W was shot and died on their wedding anniversary night, J couldn't cope and disappeared.

Three years later, 2057, old friends Z, the driver, and S, the hacker, found J when J was a total mess. They come with clues of the murderer, persuade J to join them to hunt down the person responsible for W's death. And their first step is to rescue K, the arsenal keeper, from a heavy guarded mansion.

b) Story Translation to Designs

- i. **Title:** The title Timely Shot is not only referring directly to that each shot player fired can deal higher damage by perfect timing, but also the shot as chance and opportunity to block the bullet in time.
- ii. **Technologies:** The main storyline is set thirty years in the future—a time that's not too distant but allows for technological advancements. This gives us the opportunity to try some unconventional designs while retaining traditional elements, such as energy-infused bullets and health crystals for restoring vitality. Guns that fire energy rounds yet still maintain traditional structures, and sound, reflecting a partially developed technology in this chaotic, gang-dominated Central America in the world setting.
- iii. **Rhythm:** J raised in a gang, and his years of experience as a hitman have made him the “unbeatable protagonist” of Timely Shot. His side gig as a DJ adds a musical dimension, explaining why he relies on music during missions. When J is fully focused, his shooting aligns with the rhythm in his ears, and directly hitting enemy weak points.
- iv. **Operation Base:** (WIP) Z, S, and K, the driver, the hacker and the arsenal keeper, they worked closely with J in the past and they will move as one team in the future. While game is loading or player is hanging around in operation base, they might start conversation with them to find information related to weapons, gears, abilities, and reviews of past stories. While J is in field, which means player is in game, he will receive information, hints and instruction from Z, S and K.



















c) Level Design – Mansion Rescue

This is the first level of chapter1, it is a combination of Raid, Siege, and Boss modes. As a tutorial level, player will be introduced to basic movement, combat, and interaction with environment.

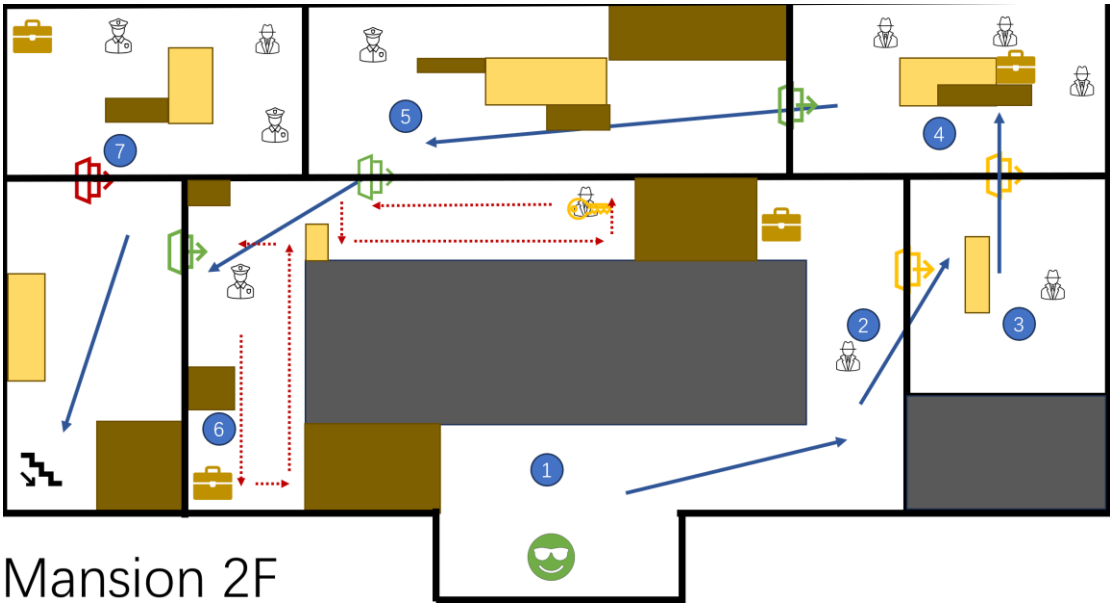
When player first enter the level, a cut scene will tell the reason why the player was asked to be part of the mission, and a mission brief: enter the mansion from the balcony at the second floor, clear all the enemies and find a way to go down to first floor; lure the enemy with key out, retrieve the key and activate the center elevator to go down to basement and rescue the former teammate.

Player will encounter the DMG Turret before where former teammate was kept hostage. Player needs to destroy the turret and retrieve the key to unlock the cell.

Level Legends:

	Doors Always On		Key		Guard, Punk
	Doors Require Level Progress		Supply(Ammo, HP)		Elite, Heavy
	Doors Require Key		Terminal		Boss
	Full Cover (Large cabinet, roadblock)		Objective		Enemy Patrol Route
	Half Cover (table, bed, sofa)				Player Flow
	Wall				Player Starting Position
	Inaccessible Area				
	Stair, Elevator				

Mansion Rescue-2nd Floor-Game Mode: Raid

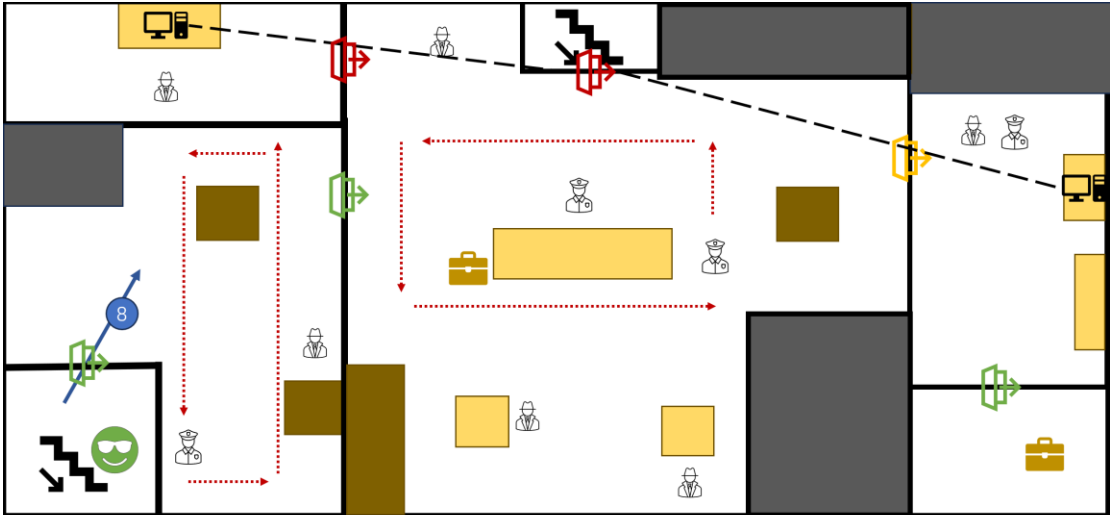


Mansion 2F

Player enters the mansion from the balcony on the second floor. One side of the hallway is blocked by boxes.

1	A safe room to practice movement	4	Combat Practice with 3 regular enemy
2	Basic Combat introduction: shoot in sync with rhythm	5	Elite enemy encountered
3	Advanced Combat introduction: Blocking	6	Find Collectible
		7	Dynamite practice (WIP)

Mansion Rescue-1st Floor-Game Mode: Siege

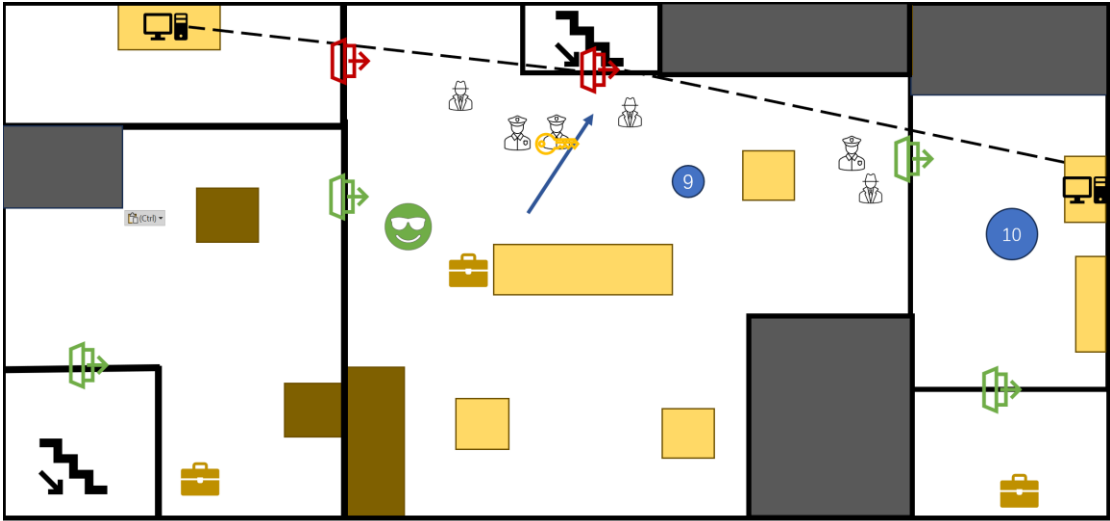


Mansion 1F Part 1

After eliminated all enemies on second floor, player comes down to first floor by the stairs. The lobby at first floor is basically an open space.

8	Door is opened, any alarm will attract all the enemies here
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Mansion Rescue-1st Floor-Game Mode: Siege

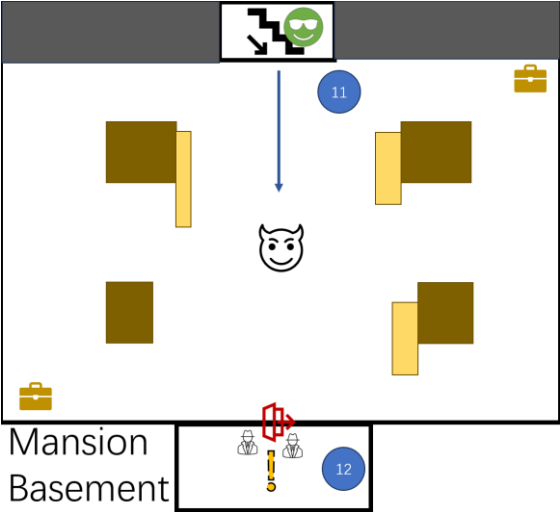


Mansion 1F Part 2

Another squad of enemies will take the center elevator to first floor as soon as all enemy on the first floor is eliminated. Another two enemies will open the door to control room and enter the lobby.

9	Key to Control room 2 is picked up	10	Interact with both terminals to activate center elevator
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Mansion Rescue-Basement-Game Mode: Boss



Player enters the basement and encounters the boss, Dual Machine Gun Turret. Teammate will inform player that the weak spot is where the ammunition stored for each machine gun. Player picks up the key and open the cell. Level 1-1 “Mansion Rescue” ends.

11	Player encounters the Dual Machine Gun Turret
12	Player rescues the teammate, level main objective.

4. UI & UX

a) Crosshair

Unlike most First Person or Third Person Shooter game, that the crosshair is always in the middle of your screen, top-down shooter game takes you time to find where your crosshair is if it is too small. And it gets more challenging in Timely Shot: while players need to aim at enemies, they also need to pay attention to the rhythm if they want to deal higher damage.

Thus, the core idea of designing the crosshair for Timely Shot can be summarized to one word, CLEAR.

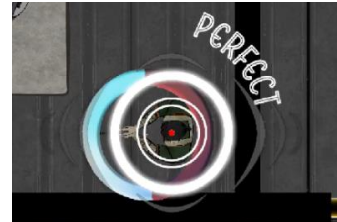
First thing first the aim sight should be clear, which means it can't be too large which will block your screen, and can't be too fancy cause it will distract you from aiming; secondly the rhythm indication should be clear, based on the size or color, player should be able to tell if it is a good or bad timing at the moment; and lastly, feedback of the shoot should be clear. Was that a good hit or perfect hit? Did I hit the enemy? Can I shoot through this? In addition to better recognize the rhythm visually, when it is not perfectly on the beat, the highlighted parts are not a complete whole circle, and not as bright as the perfect circle.



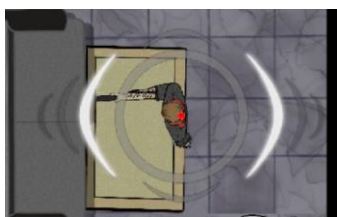
Enemy Hit Miss



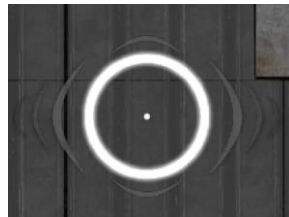
Enemy Hit Good



Enemy Hit Perfect



Crosshair On Enemy



Crosshair Not On Enemy



Can't Shoot Through

b) Other HUD & Menu

Player spends most time focusing on the area around the crosshair during the gameplay of Timely Shot, thus other information might be ignored, for instance: current magazine load. It is not that important cause you know you need to change magazine when you find yourself can't shoot, but the logic shouldn't be like this. It should be: you know you can't shoot when magazine is empty so you change your magazine after you fire the last bullet.

In order not to overwhelm the crosshair and remind player the remaining of current magazine CLEARLY, highlighted bullets, compared to the dark magazines and environment, can be easily spotted with peripheral vision. If there is no yellow or red in the lower right corner of your screen, then the next move will be reloading instead of shooting.



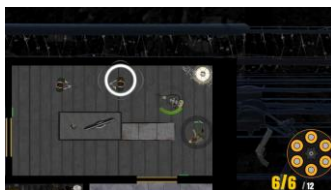
Pistol Full Mag



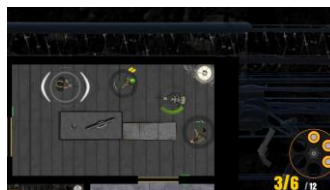
Pistol Half Mag



Pistol Empty Mag



Revolver Full Mag



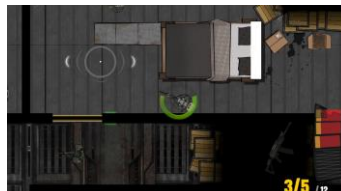
Revolver Half Mag



Revolver Empty Mag



Shotgun Full Mag

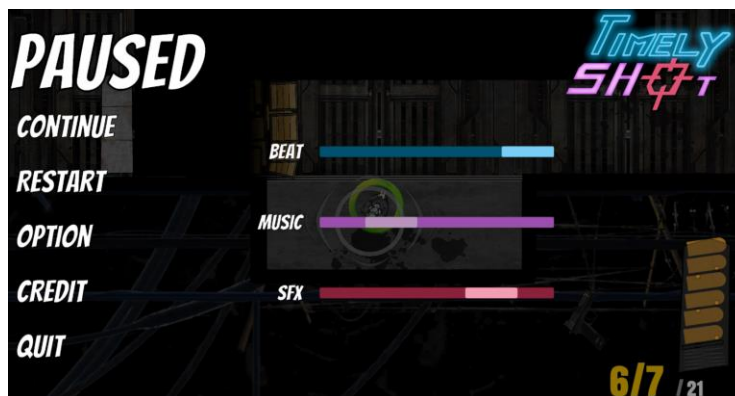


Shotgun Half Mag



Shotgun Empty Mag

As a form of game assistance, player can adjust the volume of beat, music and sound effects.



5. Art

Note from the character and environment artist, Xinyu Zhang:

“The story begins with tragedy, launching the protagonist on a dangerous path to uncover hidden truths. After witnessing the deaths of his family and loved ones, he becomes outwardly strong but inwardly cold and numb. His inner desolation is mirrored by the gray tones of the game’s world, symbolizing his faded spirit and relentless pursuit of truth. Only in moments of danger does his alertness flare, like a red light in the dark, reminding him to stay vigilant.

In the visual style, I’ve emphasized a mechanical feel to convey the brutal world he inhabits. Harsh metal surfaces, cold mechanical devices, and dark industrial settings combine to create an oppressive and heavy atmosphere, immersing the player in the protagonist’s struggles. Through these visual and emotional designs, I aim to lead players into the depths of the protagonist’s mind, allowing them to feel his loneliness, fear, and determination on his quest for the truth.”

a) Characters

i. Player

Simple, professional, former trained hitman outfit.



ii. Enemies

Armor and hat are the main elements to recognize the enemy types. In order to make enemies more diverse, we applied different hair and hat colors, and different tattoos to some of the enemies.



Punk A



Punk B



Guard A



Guard B



Elite A



Elite B



Heavy



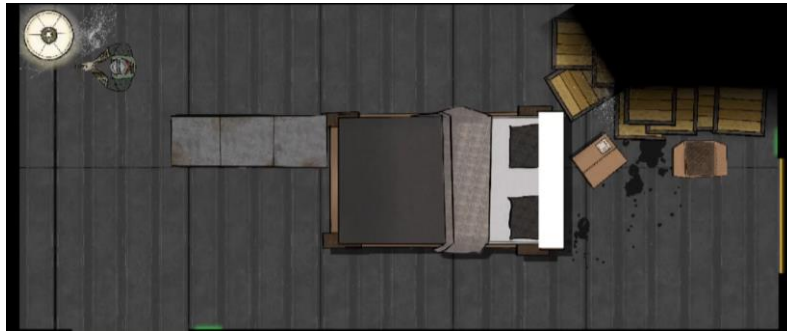
Dual Machine Guns Turret



Dual Machine Guns Turret Destroyed

b) Environment

The setting of this level is an almost abandoned Mansion taken by a gang and transformed to a temporary cell. While some furnitures remain the same, others are replaced by military gears or moved to corner. Spider webs and stains can be spotted everywhere.



Bedroom, 2nd Floor.



Main Lobby, Ground Floor.



Dual Machine Guns Turret, Basement

6. Audio

a) Music

Message from the sound engineer , designer and composer, Shangshu (Mint) Shi:

“Doing sound and music for Yu’s work is always a “yes” and a “yes?” on my side.

The yes part comes from the fact that, he is a brilliant game designer, and a terrific producer, and a genius story teller. He knows the importance of all the humanistic ideas to a game and he is willing to find every way to convey those ideas into an interactive form, which we called as game. Why would there be a question mark as well? Because I am always asking myself, if I have the capability to bring out new materials and distinct sonic quality to fit, and even highlight what he brings to the table.

The story itself is, in one word, punctuating. The main character finds himself in a cyberpunk-sequel world, it’s rain, it’s metallic walls and floor, it’s his family and love dying in front of him and he has to find the truth and survive from all the most brutal and vicious challenge in front of him. Every shot and every hit he makes and takes is like a heavy punch, and you have to make every part of that punch count.

And I think, sonically, that was the end result I made to the game. The entire game, can be sonically transformed on its own, as someone who tries to punch and fight all the obstacles, in the most depressing and breath-less atmosphere, trying to find his way out, find his way through.”

b) Sound Effect

During the process of sound designing, due to the 12 hours of time difference we have, Mint and I communicate through this sheet which is extremely helpful and organized for both of us.

Level and Environment (000-100) ▼						
Player (101-200) ▼						
Regular Enemies (201-300) ▼						
BOSS (301-400) ▼						
UI(401-500) ▼						
	A	B	C	D	E	F
	SFX Name	SFX #	File Name	Effects Description	File Number	Status
3	Boss_Fire_Single	301	FX_301_BOSS_Boss_Fire_Single	Machine Gun single fire	4	In Use
4	Boss_Fire_Fullauto	302	FX_302_BOSS_Boss_Fire_Fullauto	Machine Gun full auto	2	In Use
5	Boss_Fire_CDstart	303	FX_303_BOSS_Boss_Fire_CDstart_Kick_Steam	Machine Gun overheat coold down	2	In Use
6	Boss_Fire_CDend	304	FX_304_BOSS_Boss_Fire_CDend	Machine Gun recover from overheat	2	In Use
7	Boss_Damaged_Shot	305	FX_305_BOSS_Boss_Damaged_Shot	Bullet hits metal	5	In Use
8	Boss_Damaged_Explosion_S	306	FX_306_BOSS_Boss_Damaged_Explosion_S	Small Explosion	1	In Use
9	Boss_Damaged_Explosion_M	307	FX_307_BOSS_Boss_Damaged_Explosion_M	Medium explosion	1	In Use
10	Boss_Damaged_Explosion_L	308	FX_308_BOSS_Boss_Damaged_Explosion_L	Large multiple explosions	1	In Use

7. Future Plan

When I first wrote this story and set the protagonist J's birth year to 2027, I was thinking that by 2027, I would have graduated with an master's degree in Game Design and Development, and by then, Timely Shot would be almost complete, polished, and ready for release. In the next three years, I will continue refining the designs, learning and practicing game programming, working in my spare time, and actively seeking collaboration to complete this, main storyline lasts 3-4 hours rhythm shooter game, Timely Shot.

a) Full Game Level Timeline

1-0	• Prologue, S and Z find J in the mountains, they comes with clues and persuaded J to join them.
1-1	• Mansion Rescue, tutorial level combines Raid, Siege and Boss, introduction to movement, rhythm, and blocking.
1-2	• Advanced tutorial level. Firing range unlocked for practice and introduction to abilities.
1-3,4	• Raid levels, cash awards for purchasing and upgrading weapons and abilities.
1-5	• Receive a clue to a Boss level. Find an important evidence but J lost left arm. Team suspects there are moles in the gang.
2-0	• Memory, left arm held by W, explore the house at the night when W died. J saw a figure in the dark before wake up.
2-1	• A tutorial level to left arm abilities and music selection. Unlock more of abilities after equipped artificial limb on left arm.
2-2	• Unlock Bounty Hunt modes. Works for the gang as hitman while finding the moles. High payment.
2-3,4	• Level mixed of Raid, Siege and Memory. Connect clues together to narrow down suspects. They were attacked at the end of 2-4.
2-5	• Raid level but in a helicopter with team. Fight endless enemies. They eventually crashed but all survived with parachutes. J falls into coma.
3-0	• Memory continues, J finds W lying on floor, bring him back to childhood wakes up and climbs to parents's bodies, then wake up finds himself in a the bush.
3-1	• Raid level, follow the scrapes of helicopters and parachute to reunite with teammates while . Escaped and reestablished a new operation base.
3-2	• Siege level. Explore the new operation base, have conversation with teammates to match out the clues and find moles by timely shot at relevant evidences.
3-3-3-4	• Raid level. Team packed up and prepared, re explore the crash site. They find the mole is dead but left an address.
3-5	• Raid level. J goes to the address, it is his childhood house yet transformed into a operation base. J fights his way up find the murderer is leaving. It is the same figure in the dark...

4-0	• Memory level. J realize he sees this figure in other places and eventually he finds out who this really is. J takes the shot. Bullet hit the helmet and bounce back. The figured turned back and J sees the face.
4-1	• Siege level. The murderer gets away on helicopter. J waits for
4-2	• Raid level but in a car, teammates come to rescue J. Fight enemies
4-3	• Raid level followed by Boss fight.
Ending	• A pure rhythm game evolved from the UI of Timely Shot. There will be replays of important moments in J`s life from both past memories and main story line.
Epilogue	• J left flowers at graves of his parents and W. Credit rolls.
Free Mode	• Replay any level from past. Unlock Endless mode and rank board.

b) Game Modes

Other than Raid, Siege, and Boss, the three modes presented in Mansion Rescue, the following modes are in consideration for narrative and gameplay.

Modes	Description
Memory	Player follows the guidance to interact with environment.
Training	Automatically unlocked once Mansion Rescue is finished. Training range is located in Operation Base.
Bounty Hunt	Unlock in Chapter 2. Player first needs to retrieve 1 to 3 clues to find the right targe, then can go and eliminate the target in a Raid , Siege or Boss map.
Endless	Unlock in Chapter 3, player can choose any Siege map from past levels to start an Endless game.

c) Player Abilities

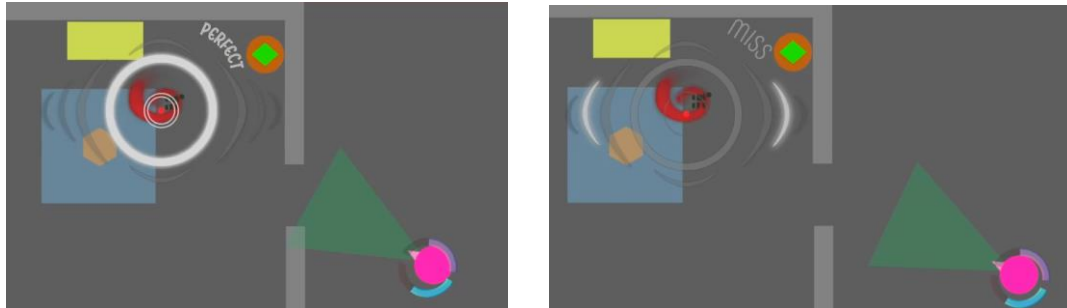
Player may unlock more active and passive abilities by level progress, side objectives completion and item collection.

Name	Unlock	Cost	CD	Description
Advanced Prosthesis	Finish Chapter 1 and complete 18+ side objectives	10K	25s	Automatically block all the bullets fired at player in the next 3 seconds. Triggered with Perfect hit will reduce the cooldown by 20%.
Extra Armor	Unlock at beginning	3K	15s	Gain 5 temporary health, last 3 seconds. Triggered with Perfect hit will grant 2 more health and last 2 more seconds.
Kinetic Absorption	Unlock at beginning	1K	NA	Kinetic Absorption grant player a 30% chance of recycling the bullet blocked by player. Triggered with Perfect hit will increase the chance to 50%
Rhythm Master	Complete 9+ side objectives	6K	20s	The next 5 bullets will deal the damage of Perfect hit . Triggered with Perfect hit will grant 3 more bullets
Gadget Master	At the beginning of Chapter 2	10K	30s	Regain 1 gadget. Triggered with Perfect hit to regain 2 gadgets
	Complete 27+ side objectives.	20K	60s	Fire rate, movement speed of enemies within 40 feet reduced by 50% in the next 5 seconds. Triggered with Perfect hit will reduce the cooldown by 20%

8. Appendixes

a) Earliest Test Demo

The first time we tested the function of shooting along with rhythm in August.



b) Archived One Page Design And Title



Before Xinyu Zhang joined the project as artist in September, I had a different vision on the visual aspect of Timely Shot: Cyber, Neon. The first thing we discussed was the story and theme. Based on the general storyline, and her expertise, we eventually go with today's more realistic, mechanical, and depressed art style.