

# Corbyn LaMar

## Technical Game Designer and Gameplay Programmer

in/corbyn-lamar | 907-406-0549 | gocorbyn@gmail.com | www.corbyn-lamar.com



---

### Skills

**Languages:** C/C++, C#, Unreal Blueprint Visual Scripting, Java, Python

**Software:** Visual Studio, Git, GitHub, SVN, Perforce, Figma, Valgrind, Doxygen, Blender

**Engines:** Unity Engine, Unreal Engine, C++ Custom Engine

**Programming/Math:** Object-Oriented Programming, Data Structures, Memory Management, Network Programming, Algorithm Design/Analysis, Agent Artificial Intelligence, Code Reviews, Pairs Programming, Unit Testing, Code Documentation, Engine Architecture, JSON Serialization/Deserialization, Debugging, Linear Algebra, 3D Vector Math, Calculus, Discrete Mathematics

**Specializations:** Gameplay Mechanics, Gameplay Tools/Automation, Level Design, Procedural Generation

---

### Projects

#### Technical Level Designer | Gameplay Programmer [Academic Project]

August 2024 - Present

##### *Eidolon: Fate of Fools* | 3D Arena First Person Shooter (Unreal, Blueprints & C++)

7 Person Interdisciplinary Team

- Developed networked arena mechanics including the player and weapon spawning systems, bounce pads, and a propulsion tunnel tool along a spline that can propel players and projectiles along its path in order to provide designers more level tools.
- Designed and gray boxed 2 multiplayer arena shooter maps, integrating gameplay and level features that promote strategic movement.

#### Technical Designer | Quality Director [Bun Bun Games]

April 2023 - October 2023

##### *We're Tethered Together* | 2D Puzzle Platformer (Unity, C#)

10 Person Interdisciplinary Team

- Curated 5 levels to adapt to evolving game mechanics, ensuring a dynamic and engaging player experience throughout development.
- Documented and systematically resolved reported bugs from the project's issue log.
- Implemented tools such as a cutscene manager and an audio persistence tool.
- Refined gameplay mechanics such as doors with buttons, moving platforms, and the eye threat manager.
- Applied code reworks for different systems to offer controller support.
- Published on Steam on October 13th, 2023 and showcased by Seattle Indies at the Washington Gaming Expo 2024.

#### Technical Designer | Gameplay Programmer | Creative Director [Academic Project]

August 2023 - April 2024

##### *Cats N Critters: A Dungeon Claw-er* | 3D Top Down Dungeon Crawler (Unity, C#)

10 Person Interdisciplinary Team

- Implemented a procedurally generated dungeon using a multi-step modular constructionist approach with wave function collapse.
- Added unit testing, seeding, and telemetry to level systems to optimize room count and gameplay time for peak engagement.
- Engineered gameplay mechanics like moving platforms and environmental triggers to enhance interactive elements.
- Created visual effects for abilities, character actions, and environments to enhance the feel and feedback of our gameplay systems.
- Maintained the game's vision by crafting user stories, organizing documentation, and aligning ideas to support team cohesion.

#### Systems Programmer | Co-Producer [Academic Project]

August 2022 - July 2023

##### *Inline: Out of Time* | 2D Time Attack Action Platformer (Custom Engine, C++)

12 Person Interdisciplinary Team

- Coded the graphics engine architecture using OpenGL, managing the graphics & render pipeline development.
- Implemented core engine functionality, such as the mesh manager, graphics system, and a JSON serializable particle system.
- Engineered gameplay systems, such as delivery objectives, dynamic objective targeting, a dynamic camera, and user interface systems.
- Collaborated on the game production cycle utilizing weekly sprints and task documentation, leading the game to be published on Steam on March 29th, 2024.

#### Systems Programmer | Gameplay Programmer [Academic Project]

January 2022 - April 2022

##### *Nowhere to Grow* | 2D Puzzle Adventure Platformer (Custom Engine, C)

6 Person Programming Team

- Created a seamless tilemap and object loading process by deserializing CSV files generated from Tiled.
- Designed and implemented a player state machine, streamlining action management and player animation.
- Crafted a camera system with parallax effects incorporated into background visuals.
- Engineered trigger areas using bitmasks, enabling game object interactions and collisions to be finely controlled within the project.

# Corbyn LaMar

## Technical Game Designer and Gameplay Programmer

in/corbyn-lamar | 907-406-0549 | gocorbyn@gmail.com | www.corbyn-lamar.com



---

### Game Jam Projects

#### Level Designer

August 2024

##### *Tropical Raceway* | Unreal Fest 2024 Seattle (UEFN) | 12 Hours

5 Person Interdisciplinary Team

- Built a Rocket Racing track using Unreal Editor for Fortnite (UEFN) during a one-day Epic Games-hosted event in collaboration with 5 people.
- Shaped track layouts by whiteboarding road designs and refining spline paths for smooth gameplay flow.
- Engineered mechanics for slow-down zones and optimized turns to enhance track playability and excitement.
- Conducted iterative playtests, gathering feedback from Epic employees and UEFN creators, and making real-time adjustments to improve the player experience.

#### Gameplay Programmer

January 2024

##### *Tumbleweed Simulator* | Global Game Jam 2024 (Unity, C#) | 48 Hours

7 Person Interdisciplinary Team

- Developed core gameplay mechanics, including checkpoint tracking, a timer, bounce obstacles, and kill planes.
- Implemented responsive camera controls based on a spherical character controller.
- Integrated and animated artist-provided UI assets for a unique in-game HUD and main menu.

#### Gameplay Programmer

July 2023

##### *Fernando's Italian Slice House* | GMTK Game Jam 2023 (Unity, C#) | 48 Hours

4 Person Programming Team

- Designed randomizable tilesets and backgrounds adding variety to the game's environment.
- Engineered fish joints using Unity physics for dynamic and responsive character movement.
- Created a moving chef character as a kill plane increasing tension as players navigate the pizzeria.
- Built a Cinemachine-based camera system to dynamically track the player character within bounds and padding.
- Developed an in-game options menu and integrated audio assets.

---

### Experience

#### Class Instructor

June 2024 - August 2024

##### *Open World*

Redmond, WA

- Instructed STEM classes developed for students within the K-12 age group.
- Simplified complex engineering, robotics, technology, and game design concepts to teach to the target audience of given classes.

#### Teacher's Assistant - System Design Methods

January 2024 - April 2024

##### *DigiPen Institute of Technology*

Redmond, WA

- Guided students in comprehending principles and practices for effective system design.
- Offered constructive feedback to enhance students' proficiency in designing scalable and efficient systems.

#### Teacher's Assistant - Level Design Methods

August 2023 - December 2023

##### *DigiPen Institute of Technology*

Redmond, WA

- Assisted students in understanding methods for designing 2D and 3D spatial environments.
- Provided feedback to students on techniques for procedural level content control and player guidance.

#### Barista

June 2021 - August 2022

##### *Starbucks*

Redmond, WA

- Collaborated actively and communicated effectively with 8 team members at a time to maintain workflow.
- Efficiently handled multiple tasks and met both deadlines and order qualifications to meet customer satisfaction.

---

### Education

#### Bachelor of Science in Computer Science and Game Design

April 2025

##### *DigiPen Institute of Technology*

Redmond, WA

- Dean's List (2021 - Present)

---

### Awards

#### Overall Design Award

April 2019

# Corbyn LaMar

Technical Game Designer and Gameplay Programmer

in/corbyn-lamar | 907-406-0549 | gocorbyn@gmail.com | www.corbyn-lamar.com

*2019 FIRST Robotics Tech Challenge World Championship Houston*



Houston, TX

---

## Certifications

**CompTIA Network+**

*TestOut Corporation*

- Credential ID 6-1C6-BXWPE

May 2021

**CompTIA A+**

*TestOut Corporation*

- Credential ID 6-1C6-264H7

May 2020

