Job Hunter: A Game about Getting a Job

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Summary

Job Hunter will be a 3D action platformer built in Unity and written in C#. Players will

seek out the scattered pieces of their resume across wacky, surreal mindscapes. Many

challenges await players to get their resume into the right hands, get an interview, and defeat

the Interviewer in verbal sparring. Job Hunter tackles the daunting task of gaining employment

in a stress-free and relatable way, so it will be especially enjoyed by college students that are

anxious about finding a job after graduation.

**Background and Motivation** 

Getting a job is often considered a vital part of the human experience in developed

nations. Hundreds of millions of Americans have at some point been employed or sought

employment [2], and in America alone, the size of the work force is over 163 million [2] [3].

It is not surprising, therefore, that many college students feel the pressure to get a job

as soon as possible after graduation. Indeed, a 2016 study in the UK found that over half of

university students worry about finding a job after they graduate [4].

Job Hunter will be enjoyed primarily by college students because it will address their

common fear of finding a job after graduation. Job Hunter's wacky characters and tasks will ease

students' anxieties by bringing a much-needed sense of humor and fun to the situation. Many

scientific studies have shown that laughter reduces anxiety and promotes learning [5]. By making

people smile, *Job Hunter* can improve students' well-being and allow them to approach jobhunting with increased confidence.

### **Features**

Job Hunter is a 3D action platformer with collectathon elements. The player can jump and engage in simple combat. For example, they can stun enemies by flashing their resume or harm enemies by throwing their resume like a throwing star. The player can also pick up and place certain objects. The player can perform contextual actions, such as interacting with Non-Player Characters (NPCs). Boss battles will also feature contextual actions, such as choosing a dialogue response to an interviewer. The game is controlled by a standard controller, such as a Nintendo Switch Pro Controller.

In *Job Hunter*, players explore the varied mindscapes of a person seeking employment. Environments and their inhabitants are not constricted to realism; instead, this wacky world is crafted through metaphor and parody. For example, one level consists of gigantic floating office supplies which the player must navigate through to construct their resume. Another level challenges players to infiltrate the heavily guarded Human Resources department.

Job Hunter will be full of life and humorous characters. For example, players will defeat cartoonish alligator-shaped "Alligorithms" that try to keep their resume away from the Human Resources department. Additionally, the player can jump on Alligorithms in certain locations to reach new locations, just as one might use keywords in their writing to get noticed by potential employers.

Players can save their game or load previous game files to continue a playthrough.

During gameplay, players can pause to view controls, restart, or exit a level. They can also replay levels at any time by choosing the level from a menu.

# **System Requirements**

### Hardware

The creator of this project will require the following hardware:

- A computer capable of running the most recent version of Unity
- A computer mouse for interfacing with Unity and Blender
- A mousepad
- Standard controller to play the game

Unity will be used as the game engine for this project because of several advantages over other free game engines. Firstly, Unity does not impose any royalties to sales of games made through their software, however their rival Unreal Engine 4 imposes a 5% royalty of sales (Except on the first \$3000 per quarter) [7]. Unity is also considered to be more user-friendly and suitable for beginners. Unreal Engine 4 is lauded for its ability to render more realistic graphics, but since *Job Hunter* will be cartoony, this does not present much of an advantage. Finally, Unity supports over 25 platforms, so porting the game would be very easy [9].

A standard controller will be used as they are readily available to gamers and they are more ergonomic than keyboard controls.

The creator of this project will require the following software

Most recent version of Unity

- Photoshop CC for 2D art, such as textures
- Blender, an open-source 3D modeling software
- Text editor for code editing

Blender is the modeling software of choice because it is free, even for commercial use, unlike other top products which have fees or restrictions on commercial use [8]. Photoshop CC will be used for any two-dimensional artwork because the author is familiar with it. Please see Figure 1 for an example of how these programs will contribute to the overall product.

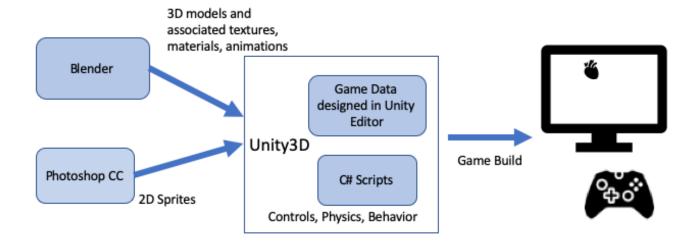


Figure 1

# Timeline

**Note:** The first semester is focused on building the game mechanics. The second semester is focused on visual design.

# **FALL SEMESTER**

Start Date	End Date	Tasks	Deliverable (s)	Notes
9/3/19	9/17/19	Create first draft of project proposal and timeline.	First draft of Project proposal and timeline, 3-5 pages, w/ references	Took a lot longer than expected
9/18/19	9/30/19	Gain basic understanding of Unity Physics  Create a health stat and display health bar on UI  Create an enemy that harms player  Start working on designing the story progression of levels and the role of different NPCS.	A player that can move, jump, and push other physics-enabled objects, but that can also collect non-physics-enabled entities.  An enemy that can harm and kill the player  A sketch demonstrating the story progression and characters.	
9/30/19	10/14/19	Design and prototype player attacks and movements.  Design additional enemies and create prototypes.  Create a prototype of level one.  Gather feedback about level 1	1+ additional player abilities added to prototype.  3+ Enemy designs 2+ Enemy prototypes  Prototype of level one.  It will include several platforms, a few collectables, at least one enemy, and a goal point.  A short document describing the feedback received.	

10/14/19	10/28/19	Implement feedback from previous sprint, if necessary.	Game with improvements implemented, if necessary.
		Continue working on designing the story progression of levels and the role of different NPCS.	A complete drawing or diagram demonstrating the story progression and characters.
		Build UI for selecting Levels	UI menu to select Level 1 or Level 2 (placeholder) implemented into prototype, with empty spaces for later levels.
		Start learning blender	2 basic models of inanimate objects
10/28/19		Prototype Level 2	Prototype of level 2.
		Add NPCs with dialogue.  Add level introduction	NPCs with dialogue throughout levels 1 and 2.
		camera movement.	A camera that pans over each level before the player begins.
11/11/19	11/26/19	Gather feedback for level 2	Description of feedback
	(Tuesday	Refine levels 1 and 2.	received.
	before	Add contextual camera movement.	A demo-ready level 1 and 2.
	Thanksgiving)		The camera will move intuitively when traversing different areas to give the player the best view.

Bonus: Gather feedback from Traveler's presentation

# **SPRING SEMESTER**

Start Date	End Date	Goal	Deliverable	Notes
1/6/20	1/27/20	Prototype levels 3 and 4	Prototype including levels 3 and 4 and the final boss.	
		Practice with		
		Blender.	Modeled and	
			rigged Player	
			Character.	

1/27/20	2/17/20	Create game assets, such as textures, 3D models, and animations.  Implement game file saving and	All 3D models All textures Some animations.  Game save and load menu that "just works"	
		Gather feedback on levels 3, 4, and the boss.	Description of feedback received.	
2/17/20	3/9/20	Learn about Unity's lighting system and adjust the game to be more visually appealing.  Implement particle effects.	A new-and-improved look for Job Hunter.  Particle effects implemented, such as smoke.	
3/9/20	3/30/20	Learn about performance in Unity and make changes to optimize your game.	Description of changes made and their reasoning.	
3/30/20	4/21/20	Gather user feedback and refine the game for final presentation.	A polished version of <i>Job Hunter</i> .	

#### References

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### **Cut Content:**

# from Background & Motivation

Getting a job is a vital part of the human experience in developed nations. Hundreds of millions of Americans have at some point been employed or sought employment [2]. In America alone, the size of the work force is over 163 million [2] [3]. Gaming is a popular hobby among people as well. A recent study of about 4,000 individuals found that 65% of American adults play video games [1]. Therefore, one can predict that a large percentage of college students play games.

### from Summary

Players battle computer algorithms and defeat HR gatekeepers to get their resume into the correct person's hands. Players must defeat enemies, solve simple puzzles, and challenge interviewers in verbal sparring to get their dream job.