



STUDENT ACTIVATION



Engineering Professor

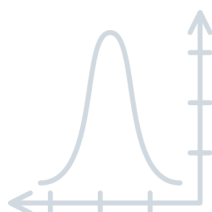
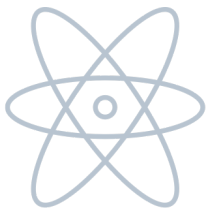


OVERVIEW

A gaming engineer for sandbox-style games is a software developer who specifically works with video games that focus on the choice and control of the player. They use an array of both hard and soft skills as they collaborate with many different team members to bring the best experience to the player, keeping the game open-ended and giving the player control and creativity. They write programs from beginning to end, solving issues throughout the design process. This career takes a focus on STEAM education and a lot of hard work, but the pay is good, and the job market is growing over the next ten years.

EVALUATE YOUR INTEREST

- I enjoy collaborating with others to reach a common goal. I tend to take my ideas to others and ask them for feedback.
- People often tell me that I am creative and look at the world in new ways.
- I often find myself pointing out problems that I run into throughout the day and looking for ways to solve the problem or make life easier for myself and others.
- When working on an assignment or planning an event, I think of the small details to make everything just right.
- My favorite classes in school are science, math, and art.



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STUDENT ACTIVATION (CONTINUED)



CAREER CONNECTION



How does this career affect me?	What are some other similar careers?	How does this career affect the world?
<p>Computer games are used in the classroom to increase student engagement, motivation, and retention. It is a way to apply the skills you learn in realistic scenarios. Computer games are fun, and they are now used in everyday life, allowing you to practice skills virtually before doing it in the real world (e.g., driving) or experiencing something you couldn't otherwise experience (e.g., being a migratory bird).</p>	<p>Computer programmers assure that applications and software programs run properly by writing and testing code.</p> <p>Computer and information research scientists use innovative design to rethink new and existing computer technology.</p> <p>Digital designers develop, create, and test website layouts for best usability.</p>	<p>People all over the world use computer games to have fun and relax, and they have become a means to expand a person's horizons. They use games to meet new people, learn a new language, improve communication skills, and even hear myths and legends from other cultures. Without ever leaving your home, computer games can now take you anywhere in the world.</p>

TAKE ACTION

- Collaborate with others on a project. Think of an event that would benefit your school community. Ask others to join a planning committee, giving space to those who you don't normally hang out with. Practice your interpersonal skills as you bring the committee together and work out all the details of putting on a wonderful event.
- Learn to code! There are coding and programming classes for all ages and price points. You can go to a camp, take an in-person class, or attend virtually. The sooner you become familiar with coding, the better.
- Volunteer to edit projects and papers for classmates. Look at the small details and correct mistakes in a way that enhances the rest of the project. Think of who the reader is and read the paper from their perspective, making suggestions so that the work is engaging and informative.
- Take notes while playing your favorite sandbox-style game. What would make the experience better? What would you like to see more of? What would you like to see less of? Are there additions that could be incorporated to enhance player experience? Flesh out your ideas in detail and send them to the developers.
- Create a board game with an alternate world keeping player needs and experience in mind. Create a profile of an example player and keep them in mind as you create your game.