

Gavin Hughes

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Education:

- University of Texas at Austin** **May 2025**
- Mechanical Engineering Major, Elements of Computing Certificate, Entrepreneurship Minor
 - Courses: Game Programming Paradigms, Elements of Graphic/Visualization, Elements of Mobile Computing
 - Overall GPA: 3.9

Work Experience:

- General Engineer, Dam Safety Section at T.C.E.Q.** **Sep 2025 - Present**
- Completed comprehensive reviews ensuring proper vetting of Texas' critical infrastructure
 - Performed various types of hydraulic engineering studies vetting the performance of dams
- Senior Software Developer, Virtual Robot Simulator** **Aug 2020 - Sep 2025**
- Designed and implemented user interface and advanced features
 - Developed an interactive process to bring user-generated, custom robots into simulator
 - Produced entertaining learning-based videos for elementary to high school students
- Independent Game Developer and Video Producer** **Aug 2017 - Present**
- Conceptualized innovative and challenging game ideas and engineering projects to expand my skills
 - Experimented with projects involving VR, AR, mobile, multiplayer, 3D, and educational
 - Published YouTube videos to a community showcasing my progress in an entertaining format

- Research Assistant, Study of Strain of Ceramics** **Aug 2021 - Dec 2021**
- Curated new drag-and-drop Excel files to efficiently generate complex graphs and data
 - Analyzed simulated visual data for patterns of high strain rate ceramic deformation

Volunteer Experience:

- Volunteer Actor, University Theater Guild's Children's Show** **Aug 2022 – Dec 2024**
- Performed each semester for the Helping Hand Home for Children
 - Generated donations for the Home through multiple performances for students and parents

Skills & Abilities:

- Deep interest in game development, robotics engineering, and video production
- Experienced with Unreal, Unity, Godot, Blender, SolidWorks, Fusion360, and DaVinci Resolve
- Familiarized in the programming languages C#, Java, C++, Python, JavaScript, Swift, and TI-Basic

Activities and Honors:

- University of Texas Alumni for Electronic Game Developer Society (EGaDS), Robotics and Automation Society (RAS), and University Theater Guild (UTG)
- First Place for Couch Co-op Game Jam - Similar to the "Jackbox" games