

Gabriela Anderson

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EDUCATION

University of Utah

Aug. 2018 – May. 2023

Honors B.S. in Computer Science with Entertainment Arts and Engineering Emphasis; Minor in Mathematics

Object-Oriented Programming, Advanced Algorithms & Data Structures, Discrete Math, Traditional Game Development, Human-Computer Interaction

WORK EXPERIENCE

Cricut

South Jordan, UT

Associate Firmware Test Engineer

Mar. 2023 – Current

- Developed an automated bootloader testing system, reducing testing time from 4+ days to less than 2 days. Minimized the need for manual intervention by designing a software application and custom Arduino button pushers.
- Engineered USB and Bluetooth logging applications specifically for Cricut machines on Windows and Mac, leading to vendor acknowledgment of poor chip manufacturing and resulting in \$40 million in savings.
- Streamlined Bluetooth testing procedures by automating the testing script, reducing the testing time by 90%. Constructed a specialized rack that facilitated simultaneous testing of 5+ different machines.
- Collaborate cross-functionally to troubleshoot and resolve firmware issues, significantly reducing average issue resolution time from 5 days to 3 days.

Cricut

South Jordan, UT

Software QA Tester

Aug. 2022 – Mar. 2023

- Developed an automated bootloader testing system, reducing testing time from 4+ days to less than 2 days. Minimized the need for manual intervention by designing a software application and custom Arduino button pushers.
- Executed complex test plans for bootloaders and firmwares on 10+ machine varieties, employing Excel and Airtable to plan, monitor, and present progress.
- Ensured product quality by writing comprehensive bug tickets, and documenting reproducible steps and qualifications for newly discovered issues. Conducted regular meetings with development teams to discuss new bugs and testing progress on resolved ones.
- Collaborated with the Firmware team to construct an FTA tool (Firmware Testing Automation) to consolidate 15 automated testing tools into a single platform while introducing new testing functionalities.
- Mitigated a critical Windows auto-update impact on device connectivity that prevented pairing with devices, affecting over 4 million Cricut machines and users; discovered a solution that is now integrated into Cricut's customer-facing application and FAQ page to safeguard user connections.

PROJECTS

Natural Disaster: A Butterfly's Guide to Mass Destruction

Unreal Engine 5, HacknPlan, Perforce

Lead Engineer

Sep. 2022 – May 2023

- Conceptualized, prototyped, and polished over 10 innovative game systems and features, seamlessly blending ideas from the design department and contributing original concepts, resulting in a feature-rich gameplay experience.
- Served as Lead Engineer, managing a team of 7 engineers, overseeing the task list, bug list, day-to-day operations, and acting as the representation for the engineering department in team-wide and lead-only meetings.
- Designed a robust Machinima pipeline, hand-selected individuals for the strike team, actively managed the team's tasks and schedules and contributed as a key member of the strike team.
- Collaborated closely with the design, art, and sound department leads to ensure seamless integration of various game components and 100+ assets.
- Successfully published *Natural Disaster* on Steam under Burning Real Studios. Leveraging Steamworks integration with Unreal Engine 5, managed the building process and acted as the first playtester for each build to guarantee stability and functionality.

ADDITIONAL

Programming Languages: Python, C++, C#, JavaScript, HTML/CSS

Software: Visual Studios, Unreal Engine, Git, Perforce, Azure DevOps, Adobe Creative Suite, Microsoft Suite, Figma

Skills: Quality Assurance, UI/UX Development, Game Design, Game Development, Technical Documentation

Soft Skills: Communication, Organization, Adaptability, Leadership, Teamwork, Critical Thinking, Time Management