Joshua Furber

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PROFESSIONAL SUMMARY

Dedicated Simulation and Visualization developer with programming experience since 2020 and a passion for growth. Skilled in CAD tools and manufacturing machinery, with hands-on experience delivering 5+ interactive prototypes combining mechanical design and software. Eager to grow with advancing technologies.

SKILLS

- Tools & IDEs: Visual Studio, Visual Studio Code, Qt Creator, Git, Jira, Bitbucket
- Certifications: Autodesk Inventor, Fusion 360, AutoCAD
- CAD & Design: Autodesk Inventor, Fusion 360, AutoCAD, SolidWorks, EAGLE
- Programming Languages: C++, C#, Python, Arduino (strong); SQL (intermediate)
- Hardware & Fabrication: Drill Press, Lathe, Belt Sander, Bandsaw, Chop Saw, Soldering

EXPERIENCE

Software Engineer Intern May 2024 - August 2024
AVT Simulation- Orlando

- Conducted development in Qt Creator and Visual Studio Code environments.
- Collaborated with a team to support C++ application development by integrating features, fixing bugs, and documenting code for clarity and maintainability.
- Gained hands-on experience with C++ and version control using Git, Jira, and BitBucket.

PROJECT EXPERIENCE

DT Dragons Mixed Reality Project January 2025 - March 2025

- Led a team of 2–5 in developing a mixed reality project by coordinating tasks, setting milestones, and writing code to ensure steady progress and quality delivery.
- Developed and integrated 5+ gameplay systems in a passthrough MR prototype using Unreal Engine and Meta XR, including enemy pathfinding, object grabbing, haptics, and round-based spawning, tested across varied room setups.

Sensory Panels March 2025 - March 2025

- Created a custom Arduino library to enable communication between multiple panels, supporting shared audio and visual settings for devices with optional LED or audio features.
- Designed and built a Unity Android app to wirelessly configure shared audio/visual settings on modular panels through a central node, leveraging a custom Arduino library.
- Engineered an LED panel system with four switches to control programmable light brightness.

EDUCATION

Bachelor of Science in Simulation & Visualization (B.S.) May 2025
Full Sail University, Winter Park FL

Associate of Science (A.S.) May 2025
Full Sail University, Winter Park FL

Associate of Arts (A.A.) May 2023
Eastern Florida State College, Palm Bay FL