

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
- **CAD & Design:** Autodesk Inventor, Fusion 360, AutoCAD, SolidWorks, EAGLE
- **Hardware & Fabrication:** Drill Press, Lathe, Belt Sander, Bandsaw, Chop Saw, Soldering
- **Certifications:** Autodesk Inventor, Fusion 360, AutoCAD
- **Programming Languages:** C++, C#, Python, Arduino (strong); SQL (intermediate)

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

AI+Expo Hackathon

June 2nd, 2025 – June 4th, 2025

- Designed and built a drone simulation in Unreal Engine for real-time LiDAR scanning at dynamic points of interest
- Implemented scan data export for external visualization of 3D-mapped environments post-flight
- Secured 2nd place and a \$15,000 award

Arbor 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

Earned Valedictorian with 5 Course Director Awards.

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