

# Joshua Furber

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## PROFESSIONAL SUMMARY

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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

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- **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

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### 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

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### AI+ Expo Hackathon

June 2-4, 2025

*AI+ Expo- Washington DC*

- 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 2<sup>nd</sup> place and a \$15,000 award.

### Arbor Sensory Panels

March 2025

*Full Sail University- Winter Park*

- 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

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### Bachelor of Science in Simulation & Visualization (B.S.)

June 2025

*Full Sail University, Winter Park FL*

Valedictorian with 5 Course Director Awards

### Associate of Arts (A.A.)

May 2023

*Eastern Florida State College, Palm Bay FL*