Anthony Genovesi

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Education

Master of Science in Computer Science | July 2024 | Wright State University

Bachelor of Science in Engineering Physics | May 2019 | Miami University

Aerospace Engineering Coursework | August 2015 – May 2016 | Embry-Riddle Aeronautical University

Skills

- C++, C#, Java, AFSIM Scenario Development, AFSIM Plugin Development, Qt, OpenSceneGraph and CMake

Relevant Work Experience

Computer Engineer II | DCS Corporation | June 2023 – Present

- Developed an **AFSIM plugin** using **C++**, **OpenSceneGraph**, and **Qt**, enabling visualization of a platform's line-of-sight.
- Implemented interactive map-based tools enabling users to **place, configure, and control simulation entities and draw with the cursor**, improving scenario creation efficiency and operational analysis.
- Developed an AFSIM plugin that allows **non-technical users** to create and modify scenarios without scripting, increasing adoption across multidisciplinary teams.
- Engineered **logistics-driven simulation scenarios** leveraging advanced AFSIM capabilities to support mission planning, experimentation, and analysis for government customers.
- Extended AFSIM's **build and module structure** by integrating Qt components and delivering a plugin that added **audio support** to simulation environments.
- Developed UI improvements for **Warlock platform control**, delivering a cleaner, more intuitive interface to improve operator effectiveness.
- Produced and embedded **technical documentation** within AFSIM to support government stakeholders, streamline onboarding, and improve long-term software sustainment.

Intern | DCS Corporation | May 2022 – June 2023

- Developed a **Warlock plugin in AFSIM** supporting a **Five Eyes (FVEY)** multinational defense project, adhering to government standards and collaborative development workflows.
- Worked within a defense software environment to deliver mission-focused capabilities while gaining experience with secure systems and stakeholder-driven requirements.

Relevant Presentation Experience

Association of Old Crows Conference | June 2025

- Presented at an **Association of Old Crows Conference**, demonstrating **distributed wargaming and simulation interoperability** using **Distributed Interactive Simulation (DIS)** standards.

AFSIM Users Group | August 2024

- Presented a **mission planning software tool** at the **AFSIM Users Group**, explaining system design, operational use cases, and benefits to defense analysts and engineers.