



# AUTONOMOUS GUIDANCE AND NAVIGATION SOFTWARE ENGINEERING FACILITY

## LABORATORY INFORMATION FACT SHEET

### CONTACT US:

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*The Autonomous Guidance and Navigation Software Engineering Facility (SEF) is used to verify and validate contractor software deliverables using Hardware-in-the-Loop and Software-in-the-Loop simulations.*

### TECHNOLOGY/FACILITY DESCRIPTION:

The laboratory is an exact copy of the contractor's development environment that allows the Armament Software Engineering Center (Armament SEC) to mitigate risk by ensuring all software

deliverables meet the specifications they have been developed. Here, software code can be verified to the specification along with the ability to perform Armament SEC-created tests to be validated.



### EQUIPMENT AND EXPERTISE AVAILABLE:

- JPADS Modular Autonomous Guidance Unit (MAGU)
- Hardware-In-the-Loop Spreadbench
- Software-in-the-loop Spreadbench
- Air Force Mission Planning Laptop
- 2K and 10K Spreadbenches
- CD/DVD Duplicator and Printer
- GPS Repeater
- Automated Software Code Testing and Analysis Tools
- Linux Workstations (Red Hat, Fedora)
- Mockup Test Cart
- Software Acquisition
- Software Development
- Software Lifecycle
- Software Testing Support
- System Cybersecurity Support
- Software Assurance Support
- Software Fielding