

DEVEDM ARMAMENT INTEGRATION FACILITY

LABORATORY INFORMATION FACT SHEET

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The Armament Integration Facility (AIF) aids in the development, prototyping, integration and testing of remote weapon systems.

TECHNOLOGY/FACILITY DESCRIPTION:

The AIF conducts system integration, weapon integration, Remote/Robotic Armament System (RAS) integration kit design, test engineering and component design/analysis. The facility integrates control systems, mechanical/electrical systems, communication architecture and radio frequency (RF) communication

for robotic armaments. Weapon integration includes automation of manned weapon interfaces, weapon safety, remote/robotic platforms, supervised autonomy and automated ammunition handling. The AIF creates RAS mount designs for platform mounts/adapters. Test engineering includes experimental test plan development, fixture/instrumentation design and the analysis and reporting of findings. Examples of component design/analysis tools include solid modeling, CREO, MATLAB, 6 DOF platforms and ADAMS.







EQUIPMENT AND EXPERTISE AVAILABLE:

- Systems Integration
- Control Systems
- Mechanical/Electrical
- Communication Architecture
- RF Communication for Robotic Armament
- Supervised Autonomy for Armament Systems

- Weapon Integration
- Automation of Manned Weapon Interfaces
- Embedded Weapon Safety
- Remote/Robotic Platforms
- Automated Ammo Handling
- RAS Mount Design
- Vehicle Mounts/Integration Adapters
- Platform Impact (e.g. Space, Weight and Power)
- Platform Dynamics

- Test Engineering
- Experimental Test Plan Development
- Fixture/Instrumentation Design
- Formal Reports
- Component Design/Analysis
- Solid Modeling, CREO, Solidworks
- MATLAB
- 6 DOF platforms
- ADAMS

