JOINT PRECISION AIR DROP SYSTEM SOFTWARE ENGINEERING LABORATORY

LABORATORY INFORMATION FACT SHEET

CONTACT US:

Technology Transfer Office

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The Joint Precision Airdrop System (JPADS) Software Engineering Laboratory (SEL) 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 provides a mirror development environment that allows the Armament SEC to mitigate risk by ensuring all vendor software deliverables meet the specifications they have been developed. The laboratory efforts are to ensure the software is sustainable in order to meet field mission requirements.

The JPADS SEL provides software acquisition and engineering support to Product Manager Force Sustainment Systems (PM FSS). This facility assists in development issues and oversight of the contractor software drops for test phases. The lab provides a rigid test environment to ensure the functionality and performance of software drops meets the high quality standards set by Armament SEC. The JPADS SEL also supports the configuration management of software releases, which is essential to the supportability of the JPADS flight software.
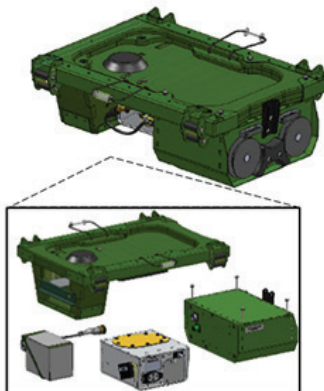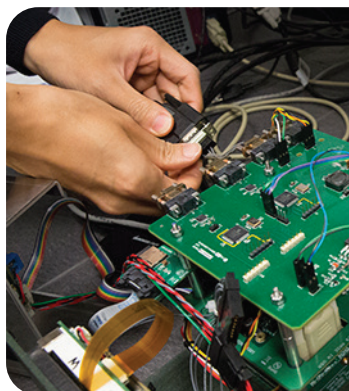
EQUIPMENT AND EXPERTISE AVAILABLE:

- JPADS Modular Autonomous Guidance Unit (MAGU)
- Hardware-In-the-Loop Spreadbench
- Software-in-the-loop Spreadbench

- Air Force Mission Planning Laptop
- microSD/SD Card Duplicator
- 2K and 10K Spreadbenches
- CD/DVD duplicator and printer

- GPS Repeater
- Software acquisition support, development, testing
- Software fielding