CPO 56 ARL Drop Hat

Project Summary

SOFWERX, in collaboration with the United States Special Operations Command (USSOCOM), Special Operations Forces Acquisition, Technology, and Logistics (SOF AT&L), Program Executive Office SOF Warrior (PEO-SW), partnered with the Army Research Laboratory (ARL), Air Force Special Operations Command (AFSOC), and Next Tech Solutions to develop a radar emulator. This emulator was designed to radiate a specified radar-like waveform and be deployed by an unmanned aircraft.

Project Timeline

Project Kickoff: 29 April 2024
Delivery of Emulators: 14 October 2024
Project Closeout Meeting: 13 February 2025

Resources Consumed

Total Cost: $127,500

Project Results:

The ARL Drop Hat project successfully delivered six prototype radar emulators to the Army Research Laboratory (ARL) for testing by an Air Force Special Operations Command (AFSOC) unit during a planned training event. The prototypes experienced range detection issues due to a design flaw, leading to a follow-on phase of the project to address deficiencies in the design.