

Accelerated Development & Support (ADS) Corporation is a small business headquartered in Arlington, Virginia with a disbursed workforce throughout the United States. ADS has built a substantial reputation as a prime contractor supporting the Office of Naval Research (ONR) in Unmanned Aerial Systems (UAS) programs for the past 10 years. Our Subject Matter Experts (SMEs) include specialists who are currently serving on the Board of Directors of the Association for Unmanned Vehicle Systems International (AUVSI), professionals who have served as Navy's Head of Carrier UAS Plans, Requirements & Resources, Navy Program Managers for multiple programs such as Fire Scout, Global Hawk, Broad Area Maritime Surveillance (BAMS) & the Tactical Control Station, as well as experienced UAS pilots who have logged 130+ hours of flight on various UAS platforms.



Unmanned Aerial Combat Vehicle

Our relevant UAS technologies support includes:

Air Vehicle Technology

- Ship & aircraft dynamic interface simulation
- Automated shipboard landing & deck operations
- Experimental methods for ship air wake measurement
- Airframe Structure & Materials – Materials selection, fabrication, inspection and maintenance

Air Vehicle Propulsion

- Fully integrated advanced demonstrator engine for UAVs
- Fundamental and subsystem technologies for increasing power and thermal management and jet engine noise reduction

Individual Autonomy & Artificial Intelligence

- Autonomous Aerial Cargo Utility System (AACUS): fully autonomous utility/logistics mission execution on a full scale rotary wing aircraft
- Dynamic Replanning and Autonomous Vehicle Control for intelligent autonomy
- Situational Awareness/Sensor Data Processing Software for Unmanned Aerial Vehicles



Autonomous Aerial Cargo/Utility System (AACUS)

Interoperable Autonomy

- Multi-Vehicle Cooperation/Targeting for Intelligent Autonomy
- Multi-Vehicle UAV Networking/Communications Software
- Collaborative tactical unmanned ground vehicle teaming with Unmanned Air Vehicles

Counter UAS Systems

- Systems engineering, analysis, and integration of sensors to detect, track, engage and assess a variety of directed energy effects on ISR payloads and UAS platforms

Engineering Analysis Tools

- Adaptive Expert System for Autonomous Detection of Aviation Mishaps Leading Indicators