



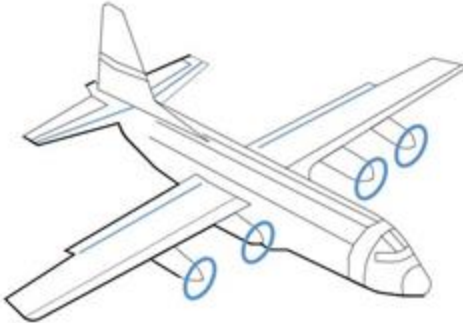
Reliable Robotics at AUVSI Hampton Roads

Oct 2, 2024



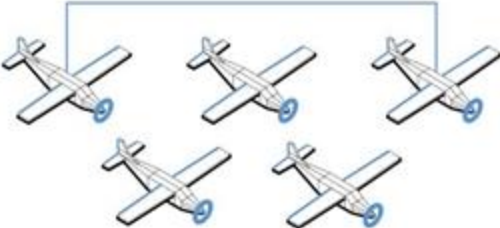
Uncrewed “Regional” Aircraft Provide High Dispatch Reliability and Cost Savings

C-130 Cargo Transporter



75% dispatch reliability
\$110M+ acquisition cost*
\$19,174/hr**

Reliable C208 UAS
90% of C-130 loads can fit on a
Reliable UAS cargo aircraft



98% individual dispatch reliability***
\$5M individual acquisition cost
\$2000/hr operational cost

90% group dispatch reliability
\$25M acquisition cost
\$10,000/hr

“



The Air Force has a unique opportunity to redefine efficiency through autonomous operations, which can enable persistent maneuver in contested environments and simultaneous cargo delivery instead of our current sequential system.”

Col. Max Bremer
U.S. Air Force, Air Mobility Command



* OUSD, “Program Acquisition Cost by Weapon System - U.S. DoD FY25 Budget Request”, March 2024
** GAO Report, “Weapon System Sustainment: Aircraft Mission Capable Goals Were Generally Not Met,” November 2022
*** Analysis of Reliable Airlines C208 dispatch reliability for FedEx operations across 4,500 flights between 2022-2024

Reliable Robotics Key Enabling Technologies

Aircraft Automation Solution



Navigation



Servos



Autoflight



Computers

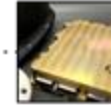


Autotaxi



VMS

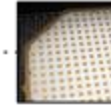
Airspace Integration Solution



C2



DAA



Radar



GCS

Airline Services
Training & Procedures
Cloud Infrastructure
Cybersecurity



**Certified
Autonomous Aircraft**



**Certified
Airspace Integration**



**Certified Airline
with Remote Pilot**

=

**Certified
Autonomous Operations**

Agile Deployment of an Autonomous C208

Demonstrated Conops in Military Operations:

- Leverage C208 with redundant automation capabilities to provide logistics services to 11 bases across California and Nevada.
- The aircraft operates autonomously during all phases of flight, including taxi, takeoff, en-route, and landing.
- A pilot was onboard the C208 to monitor the automation, or simply to perform manual flights if the exercise dictated it as beneficial.
- Ability to perform dynamic operations
 - Pelican Case with Mobile Control Station loaded into transportation vehicle (i.e., aircraft, truck, etc)
 - 20 minutes to unload pelican case and deploy an automated C208 aircraft
 - Monitor or control the autonomous aircraft from stationary or mobile ground locations.





Our platform-agnostic system enables rapid certification of advanced automation for a wide variety of aircraft

TODAY'S PROGRAMS



Cessna 208 Caravan



Cessna 208 Caravan KC-135

FUTURE AIRCRAFT

Dual-Use Platforms



C408 SkyCourier



King Air / C-12



Boeing 767 / KC-46



Boeing 737 NG / P-8



ATR 72



Electric Aircraft



Next-Gen
Narrowbody



Boeing 737 NG / P-8



C-130 Hercules



Next-Gen Air-Refueling
System (NGAS)

Commercial

Defense