



Design • Analysis • Research

July 2026

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Announcements

DARcorporation at EAA Oshkosh 2026



EAA AirVenture Oshkosh

July 20 - July 26, 2026
Oshkosh, Wisconsin: EAA Fly-In
Convention Grounds

Hanger C, Booth #3072C

(same as last year)

For our 28th straight year, DARcorporation will have a booth at the EAA AirVenture, Oshkosh, and will be joined by [Vehicle Systems, Dynamics, and Design Lab](#) (VSDDL) from Auburn University showcasing our joint National Aeronautics and Space Administration (NASA) Small Business Technology Transfer (STTR) project. Their Ground Control Station (GCS) will be featured in our booth with our joint VSDDL/DARcorporation test aircraft.



We will also be demonstrating our Advanced Aircraft Analysis (AAA) software and showcasing our engineering services. We hope to see you there! Stop by our booth to say hello and receive a free fighter jet bookmark!

Drop by the American Institute of Aeronautics and Astronautics (AIAA) booth 331 and watch our presentations in collaboration with Auburn University:

Tuesday, July 21, 1:00 pm

Speaker: Dr. Imon Chakraborty

Title: "Pilot-Friendly Flight Control Laws for the RAVEN-50 Multi-Tiltrotor VTOL Aircraft"

Summary: Flight control laws for Simplified Vehicle Operations of a complex multi-tiltrotor VTOL aircraft that have been proven through subscale flight-testing

Background: From VFS Forum 82 Paper #229

Wednesday, July 22, 1:00 pm

Speaker: Dr. Imon Chakraborty

Title: "Rapid Design, Simulation, Fabrication, and Subscale Flight-Testing of Novel VTOL Concepts"

Summary: A 4-step workflow developed at VSDDL to design, build, and flight-test subscale aircraft, especially novel VTOL concepts and control laws, focusing on rapid prototyping and cost-effectiveness

Background: From AIAA SCITECH 2026 Paper AIAA-2026-2084

Thursday, July 23, 1:00 pm

Speaker: Dr. Willem Anemaat

Title: "How to Design a MOSAIC rule Capable Sport Aircraft"

DARcorporation Featured in EDC Article

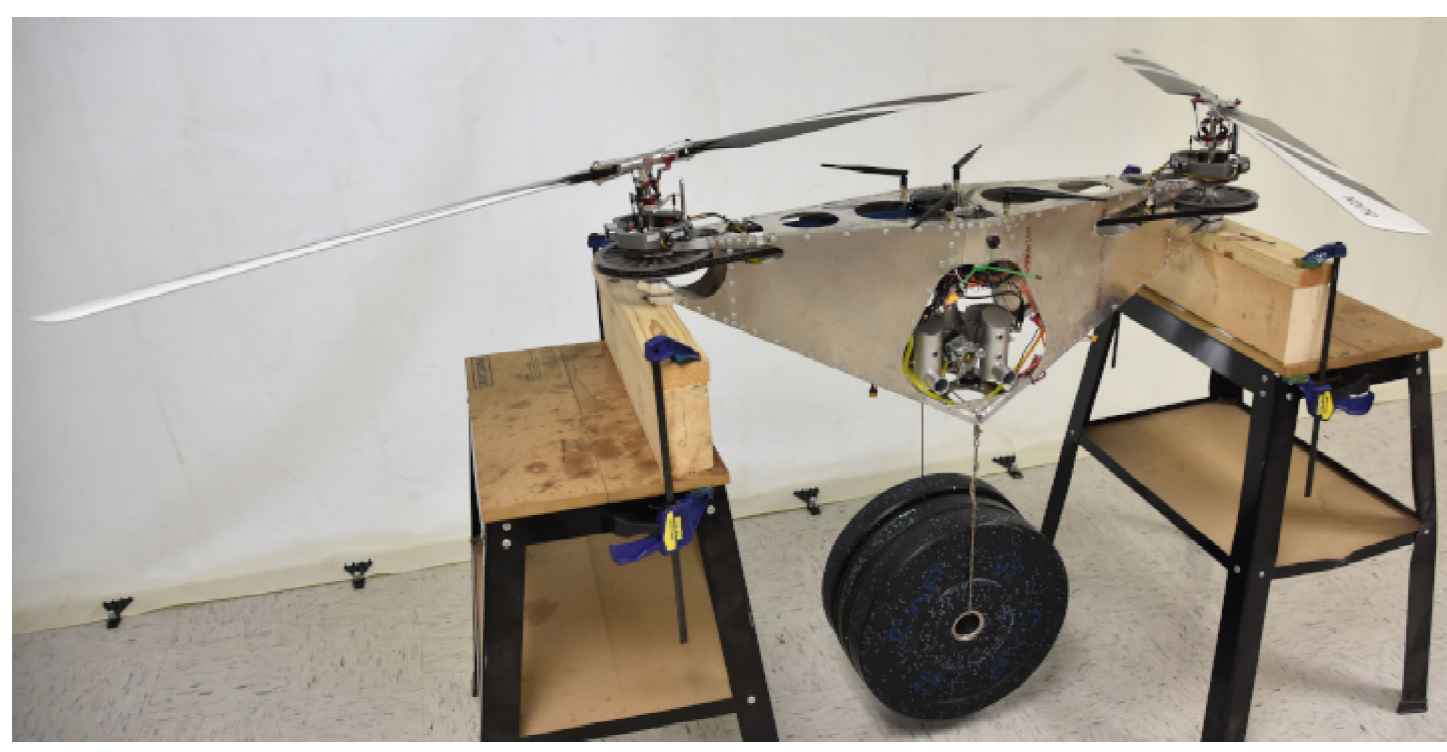


Economic Development Committee (EDC) of Lawrence, Kansas: Some of the biggest innovations in aviation are not happening where one would expect. Right here in Lawrence, Kansas, DARcorporation is helping shape the future of flight - supporting everyone from commercial aircraft manufacturers to the United States Air Force (USAF) and NASA with world-class aerospace engineering, software and training. Willem and MaryJo's story is a reminder that global impact can start in a local community.

Read more about how [DARcorporation continues to put Lawrence on the map for aerospace innovation!](#)

Attributable Autonomous Novel Transport

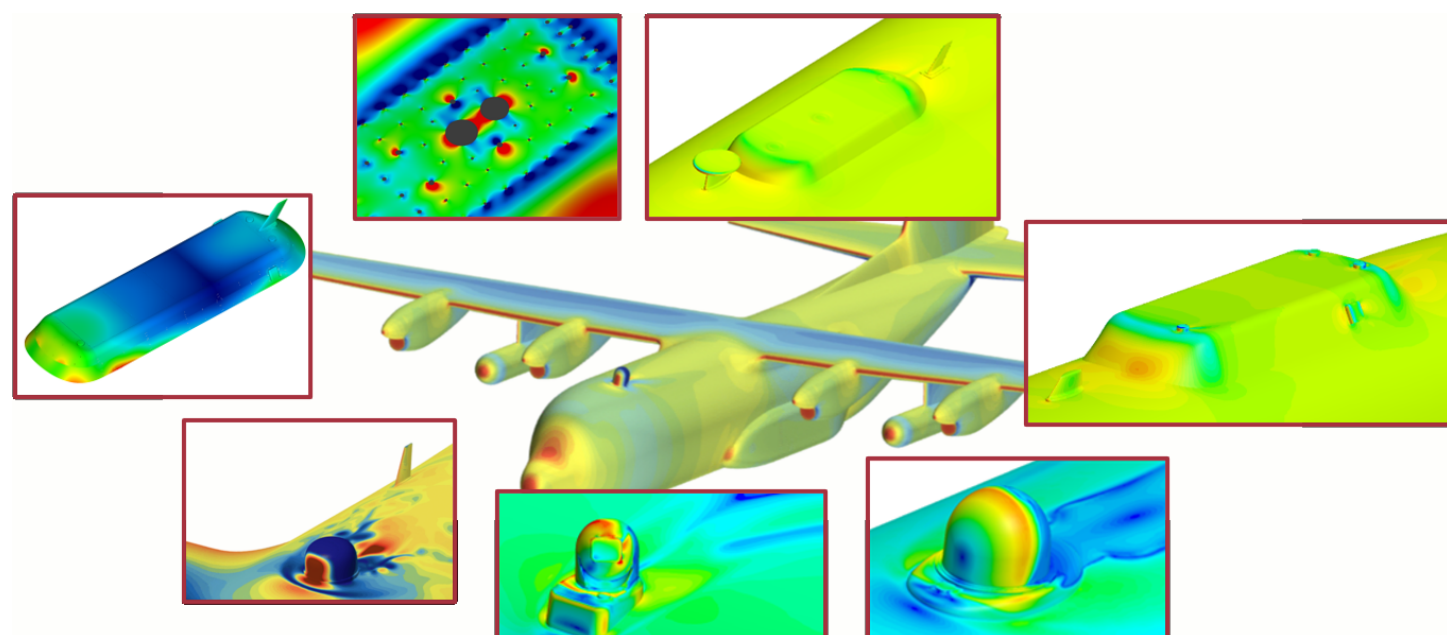
DARcorporation has designed, built and flight-tested an Attributable Autonomous Novel Transport (AANT) that represents a breakthrough in next-generation transportation technology, designed as a vertical lift unmanned aircraft system (UAS) capable of a significantly higher payload-to-weight ratio than current UAS platforms. DARcorporation is proud to announce that we have been selected to compete with the AANT in the [DARPA Lift Challenge](#) that is taking place at the National Museum of the United States Air Force in Dayton, Ohio, from August 2-9, 2026. This competition will gather more than 100 teams across the United States and around the world where each team will demonstrate their innovations in propulsion, power, control, aerodynamics and system integration.



Prioritizing operational reliability, cost-efficiency and development time reduction, the AANT utilizes a commercial-off-the-shelf internal combustion engine to power dual two-bladed rotors employing a custom-designed transmission system. A remotely controlled payload release system allows for a fully autonomous delivery of the payload. In case of emergency, a built-in "kill switch" on the AANT can bring it down in a safe manner without risk to person or property.

Radome CFD and Structural Analysis

DARcorporation engineers have supported airworthiness substantiation for multiple transport aircraft featuring large external radome installations, such as the iconic Lockheed C-130 and KC-135. Our expert team performs comprehensive analyses including Computational Fluid Dynamics (CFD) with both steady and unsteady simulations, as well as advanced Finite Element Analysis (FEA) to evaluate strength, deflection, fatigue, and crack growth.



These critical assessments cover both the external radome installations and the legacy aircraft structures, ensuring optimal aerodynamic performance and structural integrity. With this advanced engineering approach, DARcorporation helps maintain the safety, durability, and mission readiness of these essential military platforms.

Aerospace Short Courses



Principles of Aerospace Engineering

Instructor: Dr. Willem Anemaat

September 14-16, 2026
8 a.m. - 4 p.m. Monday-Wednesday

San Diego Marriott Mission Valley
8757 Rio San Diego Drive
San Diego, CA

Description: Explanation of different disciplines in an aircraft development program are discussed. Class discussions include introduction to

atmosphere, aircraft components, aerodynamics, weight and balance, stability and control, aircraft performance and an introduction to loads.

To register for the above 3-day course, please click [here](#).

Airplane Preliminary Design

Instructor: Dr. Willem Anemaat

November 2-5, 2026
8 a.m. - 4 p.m. Monday-Thursday

Renaissance Orlando Resort
1905 Hotel Plaza Boulevard, Lake Buena Vista
Orlando, FL 32830

Description: Overview of the fixed-wing airplane design decision-making process and the relation of design to manufacturing, maintainability and cost-effectiveness. It is applicable to jet transport,

turboprop commuter transport, military (trainers, fighter bomber, UAV) and general aviation aircraft.

To register for the above 4-day course, please click [here](#).

Engineering Support

We understand the current engineering job market is tight and finding engineering talent can be difficult. DARcorporation engineers can temporarily fill open jobs until a permanent solution can be found or the job is finished.

DARcorporation engineers are experienced in:

- Aircraft Conceptual and Preliminary Design
- Computational Fluid Dynamics
- Structural Analysis and Structural Dynamics
- Propulsion System Design
- Propeller (Aircraft or Marine), Rotor and Ducted Fan Design
- 3D CAD
- 3D Printing Services
- Propulsion System Testing (Performance and Acoustics)
- Test Stand Design
- Flight Testing
- Flight Manuals

Contact DARcorporation

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