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# DARcorporation News

June 2018

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## Advanced Aircraft Analysis Integration with J2 Universal and FlightStream®



DARcorporation engineers are working hard to integrate J2 Universal and FlightStream® with Advanced Aircraft Analysis (AAA). This will increase the capabilities of AAA, J2 Universal and FlightStream®. All three parties acknowledged that a collaboration will increase the value of each individual software.

By combining the software, model setup will become easier and consistent. The communication between the software allows for having to set up the model only once. It also fills the gaps and reduces the need to make guesses since more design methods will become available.

J2 Universal consists of several different modules, which include flight data analysis and performance calculations. AAA can provide useful input for modeling an airplane design in J2 Universal. Being able to analyze flight test data and coupling this back from J2 Universal to AAA will increase the quality of the design and reduce redesign efforts.



FlightStream® is a fast and robust aerodynamic solver. Integration with AAA enables the user to take a preliminary design straight into an aerodynamic solver. Coupling the FlightStream® results back into AAA will further increase the fidelity of the advanced computations in AAA. FlightStream® is currently available from DARcorporation.

The integration of AAA, J2 Universal and FlightStream® is under development for a future version release.

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## DARcorporation Awarded Third Place for Future Civil Aircraft Concept Design Competition

DARcorporation placed third in the Future Civil Aircraft Concept Design Competition organized by Commercial Aircraft Corporation of China (COMAC) and Aviation Week. DARcorporation's entry of a unique 3-lifting-surface layout combined with an innovative hybrid powerplant design was selected one of twenty qualification winners from around the globe and was the only U.S. company to place in the top three.

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## DARcorporation 2018 AIAA Aviation Forum Presentation

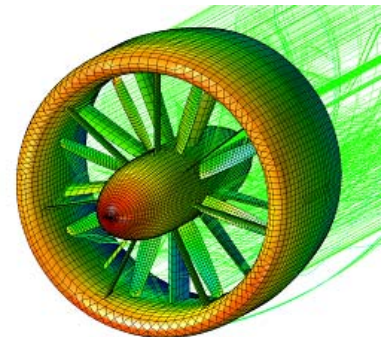
DARcorporation will be presenting a paper at the 2018 American Institute of Aeronautics and Astronautics (AIAA) Aviation Forum in Atlanta, Georgia.

Benchmarking a Robust Panel Code for Ducted Fan VTOL Aircraft Design

To be presented by: Dr. Willem Anemaat

June 29, 2018, 2:30pm - 3:00pm

Benchmarking methods for a robust surface vorticity panel code and a lifting line ducted fan analysis tool are presented. Solutions for thrust coefficient and power coefficient vs. advance ratio are compared to experimental wind tunnel data.





**New Webinar on History of Airplane Design**

July 11, 2018  
11:00 AM - 12:00 PM CDT US

**Instructor:** [Dr. Jan Roskam](#)

**Description:** Dr. Jan Roskam continues the informative History of Airplane Design webinar series, focusing on specific companies and their contributions to the commercial, military and transport aircraft industries. Companies include Curtiss, Bell, AVRO-Canada, De Havilland-Canada, Canadair, Learjet and Bombardier.

[Register](#)



July 23 - 29, 2018  
Wittman Regional Airport, Oshkosh, Wisconsin

We will be manning a booth at EAA AirVenture 2018 this summer! Grab some shade in Hangar C and come see us at booth [#3159](#), straight inside the hangar door on the right side!



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