

# DARcorporation News

October 2018



## Featured Client

### [Transcend Air Corporation](#)

DARcorporation engineers have participated in the design and analysis of the Transcend Air Vy 400 VTOL inter-city commuter aircraft. Powered by a single Pratt and Whitney PT6 engine, this tilting aircraft will be faster, less expensive and safer than traditional helicopters of similar capacity.

Starting from an initial conceptual design provided by Transcend, our engineers performed the full preliminary design using DARcorporation Advanced Aircraft Analysis (AAA) program as well as in-house created tools. Design of this aircraft included:

- Weight and Balance for Two Different Missions
- Wing, Empennage and Powerplant Sizing
- Main and Tail Rotor Sizing for Hover and Vertical Flights
- Main Propeller Design including Blade Twist and Chord Distribution
- Wing Tilt Mechanical Design
- Landing Gear Design
- Structural Layout
- Stability and Control
- Trim and Trim Diagrams
- Flying Qualities in Both Helicopter and Airplane Modes

[Contact DARcorporation](#) to discuss how we can make your project a success too.



### Short Course on Airplane Flight Dynamics

November 5-9, 2018  
8:00 AM - 4:00 PM CST US

Instructor: [Dr. Willem A.J. Anemaat](#)

**Description:** With this five day course, participants will learn an overview of airplane static and dynamic stability and control theory and applications, as well as classical control theory and applications to airplane control systems. An overview of flying qualities and regulations is included.

[Register](#)



### New Webinar on History of Airplane Design

November 14, 2018  
11:00 AM - 12:00 PM CST 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 Ilyushin, MIG, Bloch, Dassault, Breguet and Fouga.

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