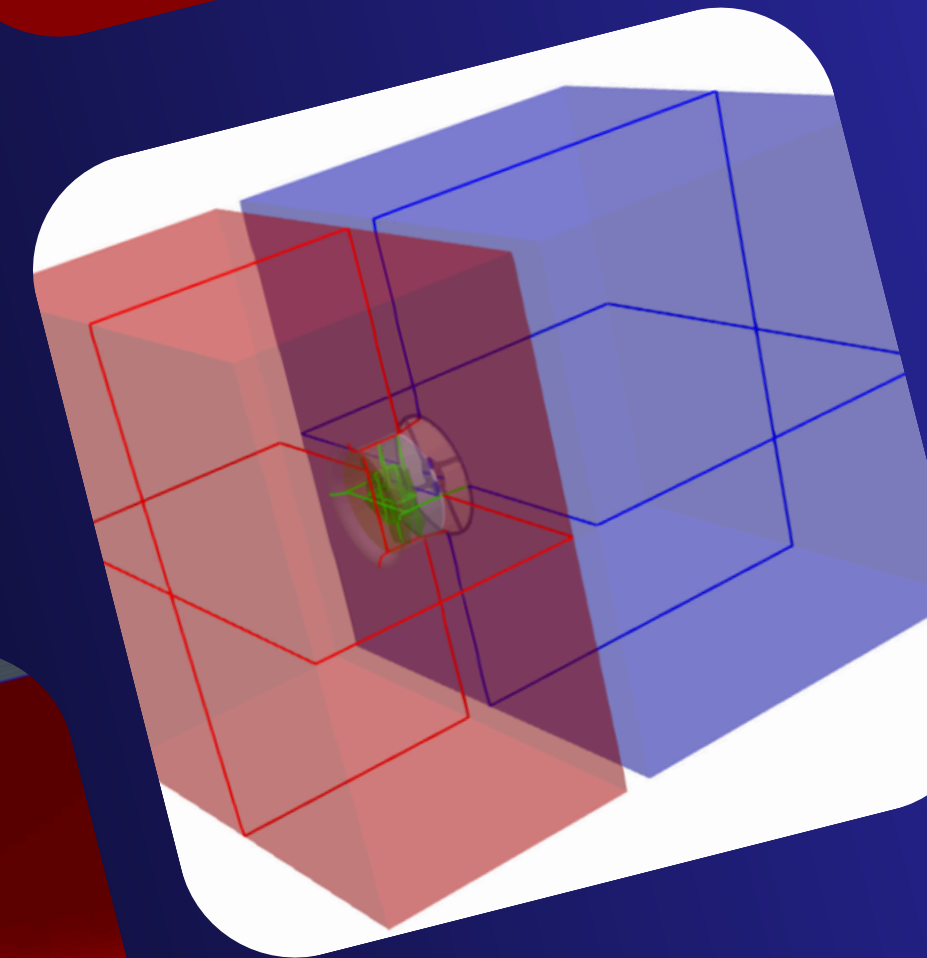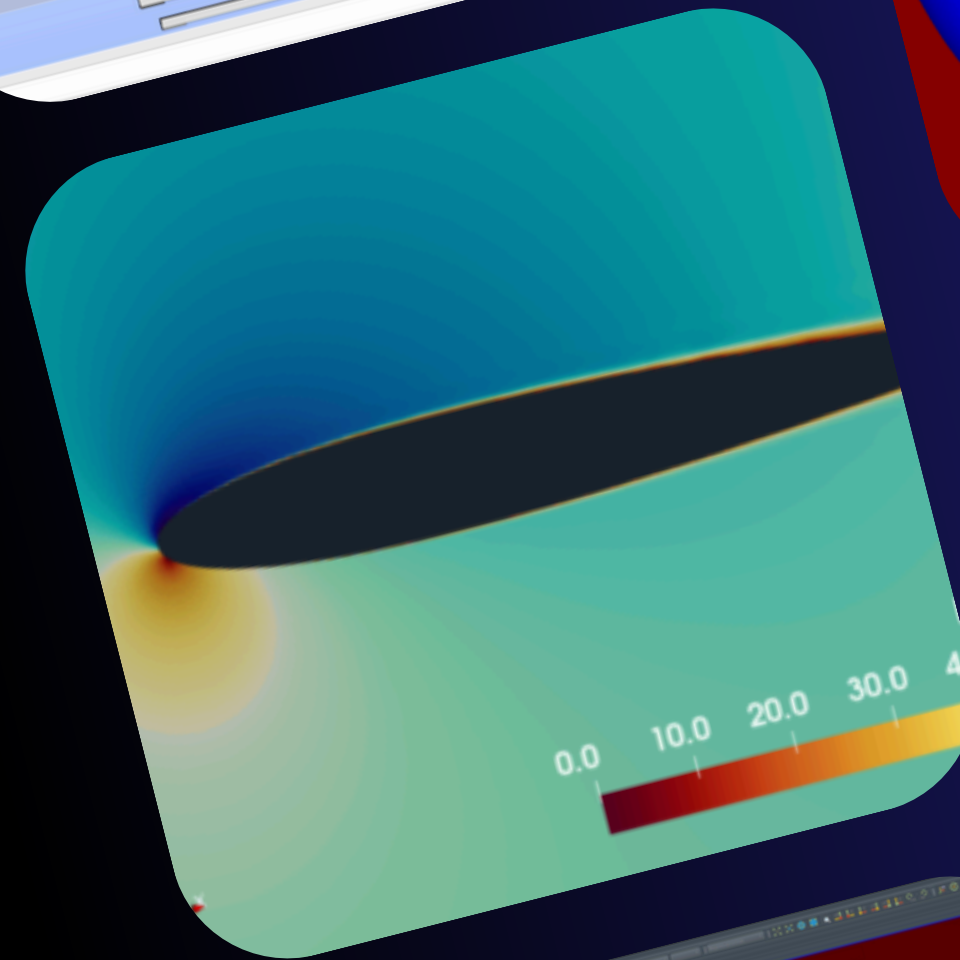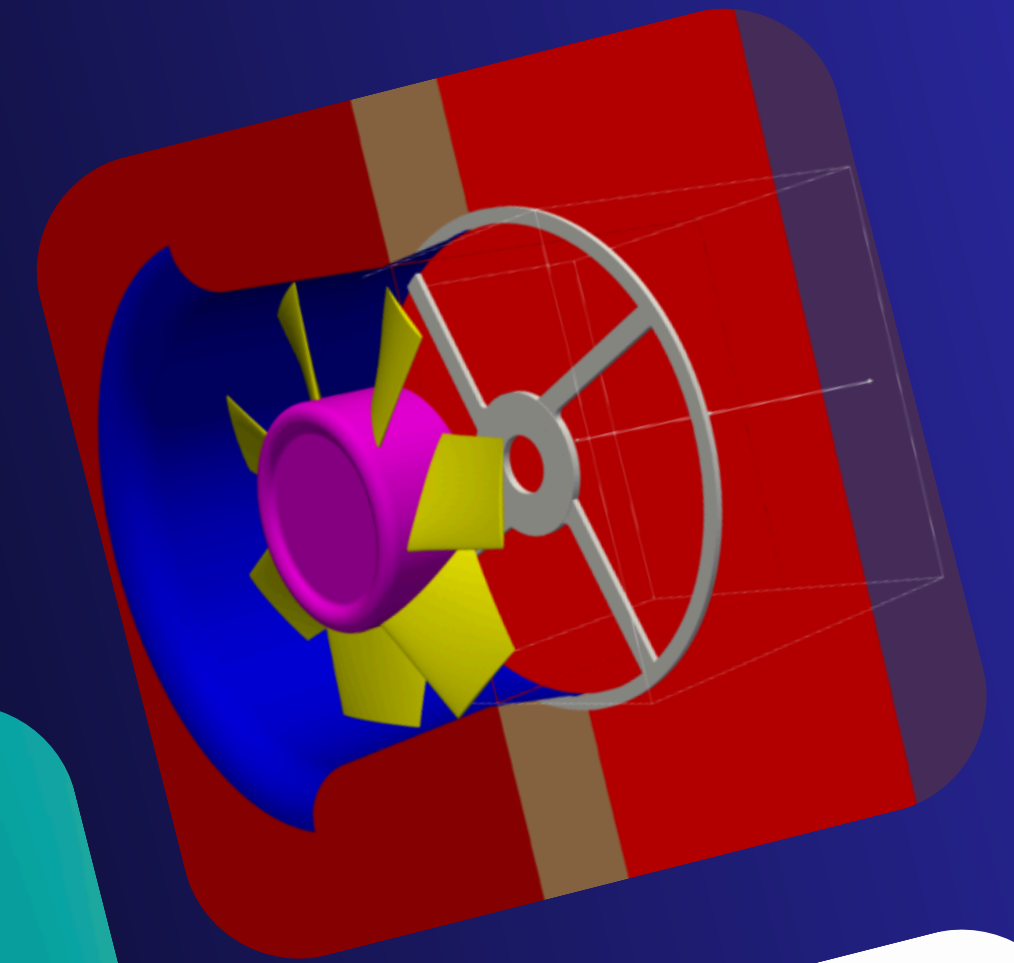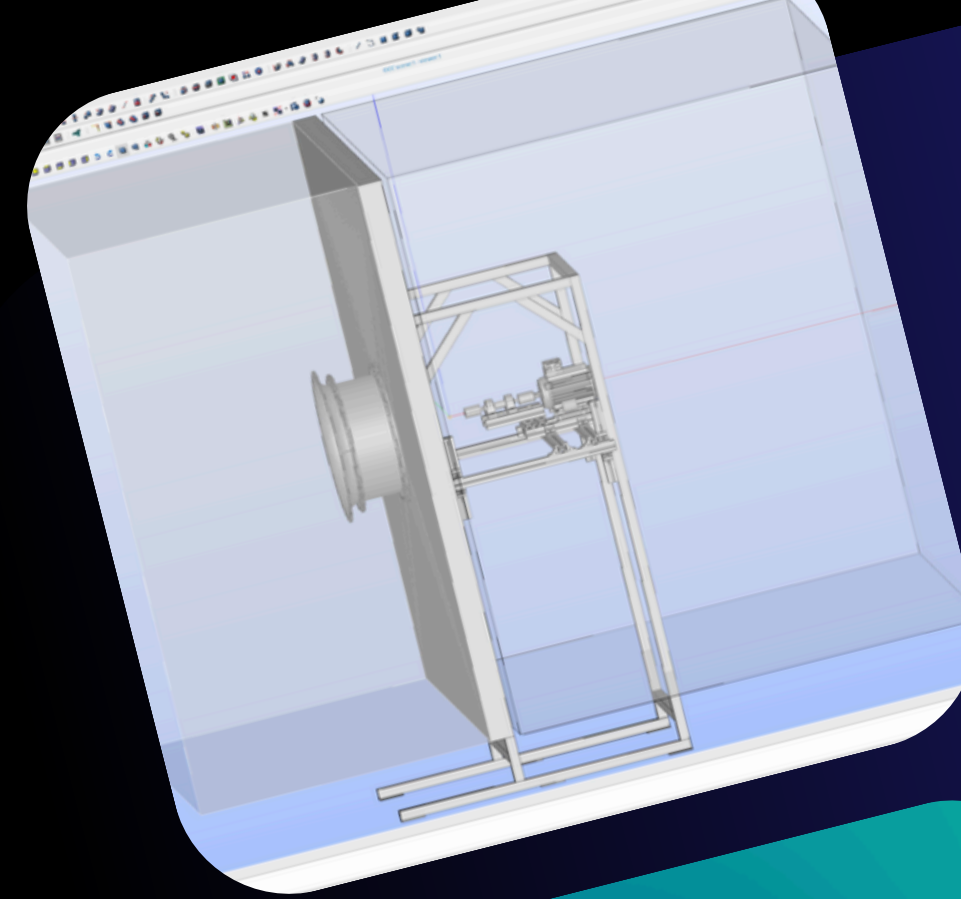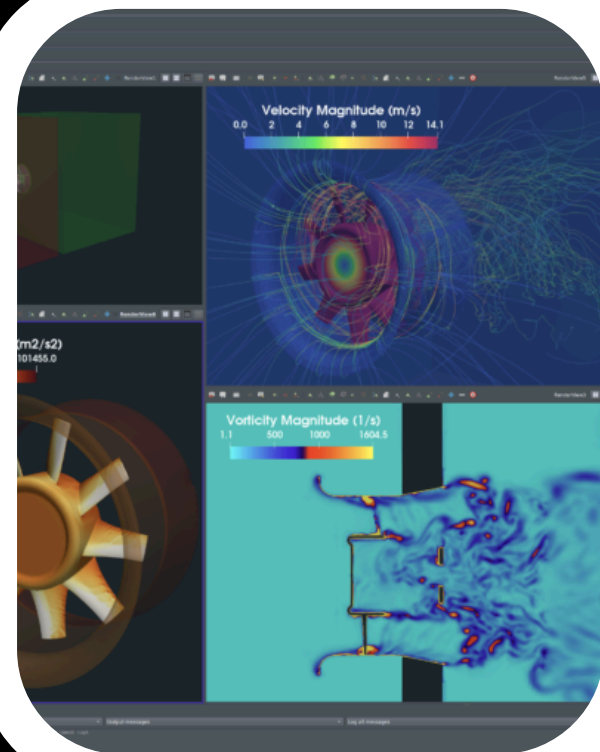# CFD SUPPORT

CAA SIMULATION

ABOUT US

CFD SUPPORT specializes in Computational Fluid Dynamics (CFD), Finite Element Analysis (FEA), and Fluid-Structure Interaction (FSI) simulations. Our expertise spans virtual prototyping,optimization,software development, and more.
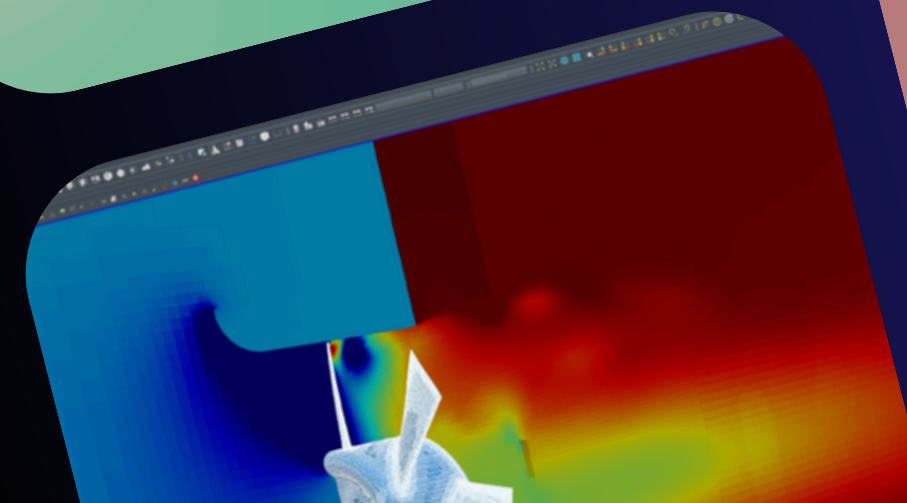
Welcome to CFD SUPPORT

CFD SUPPORT deals primarily with the CFD, FEA, and FSI simulations, optimization, software development, mathematical modeling, numerical methods, algorithms, visualization techniques, scripting, automation, and many other activities related to virtual prototyping.

SOFTWARE MODULE FOR SIMULATIONS OF ACOUSTICS

TCAA is a software module for Computational Acoustic Analysis. TCAA was designed to calculate acoustic noise from transient CFD results, both in the time and frequency domains. The approach used within TCAA is the so-called "Acoustic Analogy". The input to TCAA is a set of CFD quantities stored on the faces of the control surface.

Acoustic Benchmark Axial Fan

As transportation becomes more comfortable, there is an increasing demand to limit the noise generated by vehicles and aircraft, as well as noise in industrial workplaces.
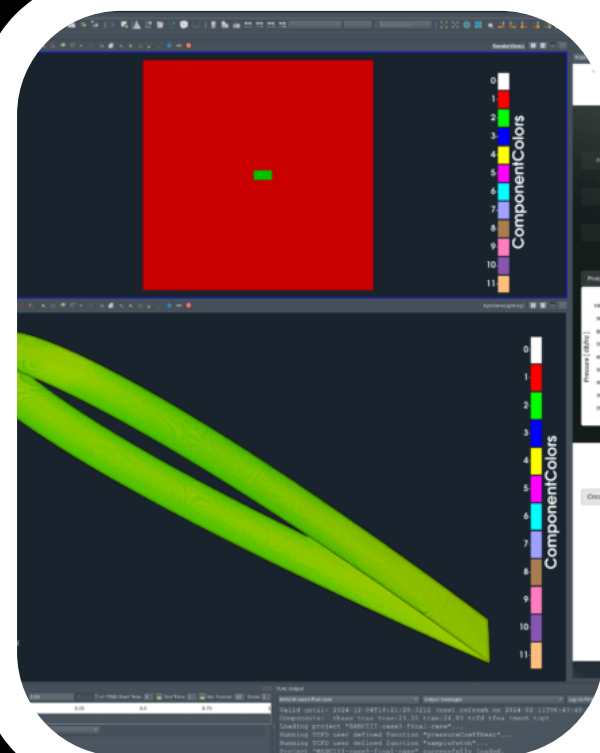
Acoustic Benchmark NACA 0012

This workflow shows a complex CAA analysis of NACA airfoil using simulation environment TCAE

Acoustic Benchmark Propeller DJI-9450

Multi-rotor flying vehicles UAVs (Unmanned Aerial Vehicles) and VTOLs (Vertical Take-Off and Landing Vehicles) have become a significant trend in the aerospace industry.

THANK YOU

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