

Odonata Research LLC



6505 E. Central Ave., Ste. 254, Wichita, KS 67206

Odonata Research LLC provides aerospace engineering services in the technical areas of loads, dynamics, flutter, CFD, and mass properties analysis. With experience in aircraft ranging from general aviation aircraft to business jets and up to transport aircraft, Odonata Research LLC has the necessary resources and experience to support any project.

- CFD analysis with FUN3D and SU2.
- Flight loads analysis (6DOF simulation and distributed loads) with proprietary software
- Dynamic loads and flutter analysis with NASTRAN
- A blade server with 128 cores

Thomas M. Hermann

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Thomas M. Hermann is a senior dynamics engineer and consultant DER for 14 CFR Part 23 and 25 aircraft. His expertise is in dynamics loads analysis, flutter analysis, ground vibration testing and flight flutter testing. His experience includes flutter and dynamic loads analysis of a business jet modified with wing and fuselage stores; flutter and dynamic loads analysis of a passenger to freighter conversion; static and dynamic loads analysis of a twin turboprop, carrier based, AEW aircraft using both customer proprietary and Nastran aeroelastic models; aeroelastic substantiation, ground vibration testing, and flight flutter testing of the Learjet 70/75; flight flutter and ground vibration testing on the Hawker 4000; crashworthiness analysis of the Beechcraft Beechjet; shimmy stability testing and analysis of the Hawker 800XP; analysis of buffet induced vibrations on the ventral fins of a King Air special missions aircraft. Prior to that, he performed research on unsteady transonic aerodynamics for flutter analysis in the frequency domain at the University of Kansas. As a NASA Langley research scholar, he developed a method for dynamic ground effect testing in the 14x22 foot wind tunnel at NASA Langley. Thomas has a B.S. and M.S. in aerospace engineering from the University of Kansas.

Aircraft Model Experience

- Airbus A320 series
- Beechcraft King Air
- Beechcraft Beechjet
- Cessna Citation Sovereign
- Gulfstream G-III
- Gulfstream G-IV
- Gulfstream GV-SP
- Hawker 800XP
- Hawker 4000
- Learjet 40/45 and 70/75
- Northrop Grumman E-2D Advanced Hawkeye