Flight Mechanics Engineer (m/f/x)

Jetzt Bewerben

Grob Aircraft looks back on over 50 years of experience in building composite aircraft and is one of the world's technology leaders in this segment. With nearly 4,000 aircraft delivered and around 330 employees, the company is one of the leading suppliers of training aircraft for civil and military applications.

The program:
CA-1 Europa is an autonomous fighter jet in the three-to-five ton class under development at Helsing and its subsidiary Grob Aircraft. Combining the Centaur AI software and mission stack with Grob's proven capability in aircraft design and manufacturing, CA-1 represents a clean-slate approach to air dominance.
About the role

We are looking for an experienced Flight Mechanics Engineer to develop and validate aircraft models and to perform handling-qualities assessments. You will also support FBW teams during design, simulation and test phases. You will have interface across disciplines such as aerodynamics, loads, flight controls, systems, flight test and certification, to ensure consistency of models and assumptions.

Key Responsibilities   **Experience & Qualifications**

- Develop, implement and maintain high-fidelity 6-degree-of-freedom (6DOF) simulation models for fixed-wing aircraft.
- Create and validate aerodynamic models (database generation/processing) from CFD, wind tunnel and flight test data.
- Conduct handling-qualities analyses and assessments (MIL-STD/ADS-33/CS-25/CS-23 considerations as applicable), run pilot-in-the-loop and metric-based evaluations; produce recommendations and design solutions.
- Support fly-by-wire/flight-control development: provide vehicle models and requirements input, design verification (simulations and piloted evaluations).
- Prepare and deliver technical artefacts for certification and verification: simulation reports, requirement traceability, test cases, qualification evidence, and support for flight tests.

- MSc (or equivalent) in Aerospace, Aeronautical, or Mechanical Engineering.
- 5+ years of professional experience in flight mechanics, including certification work (CS-23/CS-25; military standards is a plus).
- Experience building and validating aircraft simulation models and processing aerodynamic data.
- Proven experience in handling-qualities assessment through simulation, flight simulators, and flight testing.
- Experience supporting Fly-By-Wire (FBW) or flight-control system development.
- Strong programming skills in Python and MATLAB/Simulink.
- Excellent English communication and presentation skills for engaging with technical teams and certification authorities.
- Experience with military aircraft (design, flight testing, or handling qualities).
- Experience with wind-tunnel testing.

Kontakt

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