



Avionics System Engineer (m/f/d)

Raikhlin Aircraft Engine Developments GmbH is a center for the design, research, development, and production of high-performance engines and their components. The company specializes in meeting the most demanding requirements of the aviation, defense, and automotive industries. Development is conducted in accordance with CS-E and CS-23 as part of an EASA Part 21 design organization.



We are seeking an Avionics System Engineer (m/f/d) for our company to start as soon as possible.

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Responsibilities:

- Development of a safety-critical FADEC system (engine control unit) for CS-23 aircraft engines in accordance with ARP4754B, ARP4761, DO-178C, and DO-254
- Conducting system safety assessments for the FADEC system and defining the Design Assurance Levels (DAL) for hardware and software
- Defining system requirements and developing a system architecture that meets the required DALs
- Requirements management using Polarion
- Applying model-based software development techniques (using MATLAB/Simulink) for the FADEC software
- Software development utilizing both Simulink code generation and manual coding techniques
- Development, execution, and evaluation of software and FADEC system tests
- Preparation of relevant certification evidence
- Coordination of project-specific requirements with internal RED departments and external partners

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Qualifications:

- Completed degree in Aerospace Engineering, Mechanical Engineering, Software Engineering, or a related field
- Extensive experience in systems or software development within an aerospace context—ideally involving propulsion systems
- Knowledge of aerospace systems and standards such as DO-178C, DO-254, ARP4754B, and ARP4761 is desirable
- Excellent proficiency in MS Office, including VBA
- Proficiency in MATLAB/Simulink
- Proficiency in Polarion
- Basic knowledge of/prior experience in avionics hardware development
- Language skills: Fluent English; German is desirable



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We offer:

- The opportunity to work in a company that offers the perfect blend of internationality, down-to-earth values, professionalism, and innovation
- A corporate culture characterized by mutual trust and recognition of achievements
- Teamwork and open communication
- A diverse range of responsibilities
- Competitive compensation

Please understand that we can only consider complete and substantive applications (submitted by email) that include a cover letter, resume, transcripts, certificates, and any additional qualifications, along with your earliest possible start date and salary expectations.

Please send your application on:

Raikhlin aircraft Engine Developments GmbH

 Am alten Wehr 23 · 53518 Adenau

 E-Mail: recruiting@red-aircraft.com