Our Mission: Contribute to a climate-neutral future by making Zero Emission Air Transport happen!

Therefore, we need **you** as a staff member for our EASA Part 21J design organization in the function

Software Engineer (m / f / d)

We are pioneering in the field zero emission aircrafts and on track to bring the first certified emission free aircraft into the market. The believe that the key technologies developed by APUS will play a decisive role in the future of aviation and redefine the state of the art.

You want to actively shape and contribute to a climate neutral future?
You are a team player, creative, dedicated, thinking outside of the box?
Be part of our journey and make zero emission aviation happen as part of our team!

We are looking forward to applications from mothers, fathers, people with disabilities and people from the LGBTQIA+ community. Our office and workshop are completely barrier free. We are located just 400m from a barrier free S-Bahn station and do have barrier free parking lots.

Our transparent, dynamic, and creative way of working will inspire you. You will quickly be swept away and feel at home with us.

You care for us, we care for you! Beside many other benefits we offer:

- **Family friendly:** We support Parents with flexible Scheduling, Home Office and child sick days.
- **We support you:** We want you to fell home asap and help you getting settled with a flat or assist in any bureaucracy acts required with local or national authorities.
- **Home Office:** We offer partial remote work. Feel free to ask during the interview for the modus which fits best for you and your position.
- **Further education:** We offer a series of in house aviation engineering related education programms. In addition, we support you with targeted training that let you develop personally and professionally.
- **Accessible Aviation:** we believe that every developer of aviation needs to have the chance to life and feel aviation and the product.
    - **You are a pilot?** We have a pool of aircrafts accessible to our team!
    - **Want to become a pilot?** We are happy to assists you in becoming a private pilot yourself! Being located at the airfield, a training flight is never more than 5 minutes away!
    - **Just fly?** We get anyone airborne, be it a business trip with our aircrafts or the recreational flight with a gorgeous team member after work.
- **Teambuilding and more:** We do legendary company trips every year and create family days to get to know the team behind you 😉.

You will analyze, compare and combine data from tests and simulation into understandable reports and visualization. For this task you develop the necessary software tools and make them available for the team via web platforms and standalone executable. With our team you define new description file standards or protocols. On top, you will be a central point of knowledge and an important and valued discussion partner, actively steering software development in a small but fast growing team.

Your tasks

- **Developing software tools** for Data acquisition, storage and visualization
- **Design and implementation** of airborne software for powerplant and avionics systems of aircrafts
- **Definition and management** of software & electric interfaces
- **Creation of technical documentation** and preparation of compliance reports
- **Planning & conduction** of subsystem and complete system tests incl. documentation
- **Assist in development** of airborne electronic hardware

Your profile

- **Languages:** In-depth programming knowledge in at least one and preferably two of the following languages: Python, C/C++, SQL, JS, ASM
- **Tools:** Good knowledge of state of art CI workflows and toolchains
- **Visualization:** Experience and interests in handling and visualisation of big data sets
- **You have** Ability to quickly understand complex systems
- **You are** interested in aviation and have a passion for emission-free mobility

Beneficial but not required:

- **Busses, Protocols:** Knowledge of CAN-Bus Protocols, RS232 Interfaces, UDP, sensor data acquisition
- **Experience:** Working experience in aviation / PART 21J environment with focus on software / electronics
- **Knowledge:** Good knowledge of airworthiness requirements and standards (CS-23, ARP4754A, ARP4761, DO-254, DO-160G etc.)
- **Degree:** Engineering degree with focus on software engineering or aerospace engineering or IHK Degree in "Fachinformatik" or equivalent
- **License:** Pilot license/experience

Application deadline: 31.01.2023
Preferred start of work: at short notice
Vacancy reference ID / date: #25 / 20.12.2022

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