

Internship in Avionics Architecture Dept.

Avionics Architecture department is a key stakeholder in managing high level functionality, creating system level architectures and providing technical leadership contributing to end-to-end avionics systems. Helicopter avionics encompasses functions related to communication, situational awareness, vehicle management, navigation, flight controls and much more.

New trends show innovation in areas such as automation, environment perception, connectivity functions or novel Human Machine Interface. In order to define novel avionics functions there is a need to create rapid prototypes of avionics functions to demonstrate, iterate on the design and validate them before moving to real development.

As a member of Avionics Architecture team you will have a chance to support activities for novel helicopter avionics functions by contributing to building software applications of prototype avionics functions for a simulator, portable devices such as tablets or for wearable devices such as Augmented Reality glasses. In this role you will have a chance to collaborate with domain experts from avionics, HMI and simulation and gain a birds-eye view of overall avionics functionality and early development activities.

Airbus Helicopters Deutschland seeks a highly motivated candidate for an Internship on the following topic:

Software Development for Rapid Prototyping of Avionics Functions

Following tasks will be in the scope of work:

- Software Development for prototype applications of avionics functions in a simulator environment, for portable devices (tablets, mobile devices...) or wearable devices (e.g. Augmented Reality glasses)
- Writing clear, well-structured, and documented code in Matlab/Simulink, Python, C or similar
- Collaborating with avionics systems architects, HMI, software engineers & simulator teams
- Communicating and documenting your work to the relevant stakeholders

To fulfil the requirements, the candidate shall have:

- Currently enrolled student in Computer Science, Software Engineering, Aerospace or related field
- Demonstrated strong coding experience in Matlab/Simulink, Python (experience in C is a plus)
- Ideally previous experience in building applications for portable and wearable devices (phones, AR headsets) and overview of the associated tools (programming languages, platforms...)
- Basic knowledge of aviation, aerospace engineering and avionics design is a plus
- Fluent English skills, German or French are an advantage
- Collaborative, result oriented and pragmatic attitude to contribute to various efforts as needed

Location: Airbus Helicopters Deutschland (Donauwörth)
Start: October 2020
Duration: 6 months

For technical questions and application, please contact:

Kamil Kaczmarczyk
Avionics Systems Architecture
☎ + 49 906716940
✉ Kamil.Kaczmarczyk@airbus.com