PhD/Doktorand*in (Wissenschaftlicher Mitarbeiter*in)

PROJECT PAFA-ONE

PhD: Planning Intelligence for Plug & Fly Avionics

Current digital avionics systems are statically configured by millions of parameters. This requires high amounts of time and money within the development of such systems. A significant simplification can be achieved, if computers and peripherals organize themselves as so-called Plug&Fly Avionics. However, issues need to be solved as deterministic planning algorithms, self-explanation, and self-qualification of such systems. Within the newly starting research project PAFA-ONE, methods shall be developed enabling Plug&fly technically and within the regulatory boundaries. The offered position targets the research for the methods and algorithms of the planning intelligence of this self-organizing distributed computing system. PAFA-ONE is a project with multiple PhDs and part of the project is also the cooperation with aircraft certification authorities.

Offered is a full position payed according to the German tariff (TV-L 13). A self-controlled management of project duties, publications, and technical and scientific progress is expected.

Preferred Profile

• PhD-eligible diploma or master in aerospace engineering or computer science
• Background in optimization, planning algorithms and/or AI
• Basic knowledge in aerospace safety and certification regulations

Application

Interested? Send your application including motivation, CV, and certificates to the email below. German or English both are fine.

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