Anbieter

Universität | Universität Stuttgart
Institut/Einrichtung | Institut für Luftfahrtsysteme
Kategorie | Wissenschaftl. Stellen

Angebot

Titel | PhD: Self-Qualification of Plug & Fly Avionics
Einsatzort | Pfaffenwaldring 27, 70569 Stuttgart, Deutschland
Beschreibung

(PhD / Doktorand*in / Wissenschaftlicher Mitarbeiter*in)

Your opportunity to join the highly innovative, friendly, and international field of aircraft electronics and software:

Current digital avionics systems are composed of standardized, distributed computers and are made operational by millions of configuration parameters. As they host safety-critical functions, the development, integration, and testing of the configuration is very time and resource intensive. A significant simplification can be achieved, if computers and peripherals organize themselves as so-called Plug&Fly Avionics. However, a system that establishes its operational state while relying on own decisions is contrary to current qualification rules and procedures. The goal of the project PAFA-ONE is the demonstration that self-organizing avionic that host safety-critical functions are technically feasible and can be in line with safety regulations. The challenge of the PhD is to develop a concept, a software architecture and algorithms that allow the computers itself to ensure and prove its correctness to the outside world, i.e. a self-qualification or virtual qualification authority. PAFA-ONE is a project with multiple PhDs and part of the project is the cooperation with aircraft certification authorities.

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

Application

Interested? Send your application including motivation, CV, and certificates to the email below.

University of Stuttgart / Institute of Aircraft Systems

Anforderungsprofil

- PhD-eligible diploma or master in aerospace engineering or computer science
- Background in aerospace safety and certification regulations and according processes
- Knowledge in automatic tests or runtime-verification as well as redundancy mechanisms

Vergütung | TV-L 13
Art der Beschäftigung | Vollzeit
Zeitraum der Beschäftigung nach Vereinbarung

Kontakt

<table>
<thead>
<tr>
<th>Vorname</th>
<th>Björn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Annighöfer</td>
</tr>
<tr>
<td>Telefon</td>
<td>+49 711 685 62703</td>
</tr>
<tr>
<td>E-Mail</td>
<td><a href="mailto:bjoern.annighoefer@ils.uni-stuttgart.de">bjoern.annighoefer@ils.uni-stuttgart.de</a></td>
</tr>
<tr>
<td>Jetzt bewerben</td>
<td><a href="mailto:bjoern.annighoefer@ils.uni-stuttgart.de">bjoern.annighoefer@ils.uni-stuttgart.de</a></td>
</tr>
</tbody>
</table>


Bitte beziehen Sie sich in Ihrer Bewerbung auf https://www.stellenwerk-stuttgart.de/