Full-time Software Engineer (embedded C, Python)

Development, Implementation and Testing of Embedded Software for Fuel Cell System Components.

The company

Established in early 2017 by a group of alumni of the Forze Hydrogen Racing Team Delft, zepp.solutions is aiming to become a major European player in the **development of hydrogen fuel cell systems**. In hydrogen fuel cell systems, hydrogen, which can be obtained from renewable sources such as wind and solar, is combined with oxygen to transform their chemical energy into electrical energy. This electrical energy can be used to power electric drivetrains in a wide range of mobile applications. zepp.solutions is currently working on the development of fuel cell systems for applications ranging from material handling to maritime, the first of which is already operational.

We offer

A challenging and dynamic position in a **young and growing company** together with 11 talented and motivated colleagues. Our work atmosphere is informal and we believe in an environment where everyone enjoys a high level of **autonomy**. We want to give you the opportunity to learn and grow by implementing your ideas, and give you the possibility to become an essential part of zepp.solutions. It is possible to work from home for part of the time while the Covid pandemic is ongoing.

Job description

Main focus of this position is the development of application level **C code** running on an **embedded platform**, and occasionally some more lower level embedded work. This software will read and process data from the numerous sensors in the fuel cell system, control a wide array of actuators and perform diagnostic functions. You will be at the intersection of people from **diverse disciplines**, from physicists and control engineers to hardware engineers.
Your position further includes the continued development of parts of our embedded software toolchain, which are currently being developed and maintained in house in order to bridge the gap between high quality, **safety-critical software development** on one side, and rapid, more flexible, **test-driven development** on the other side. We are looking for someone with a flexible attitude who can easily adapt to the diversity of tasks that arises when working in a young company. Someone who knows how to set up durable software architectures and understands the importance of maintainability.

Responsibilities

- Extract software requirements from component, system and interface specifications.
- Implementation of embedded software in C, responsible for reading and processing sensor values, running control algorithms, controlling actuators and performing detailed diagnostics.
- Performing static analysis, writing and performing unit and integration tests.
- Continued development of the embedded C software toolchain in Python, working

towards an architecture that elegantly supports development of different projects with overlapping code base.

Requirements

- BSc/MSc degree in Computer Science, Embedded Systems, Computer Engineering, Electrical Engineering or similar
- Experienced in C
- Experience with embedded systems is prefered
- Fluent in English with good communication skills

Job details

- Located in the historic city center of **Delft, The Netherlands**
- **40 hours** work week
- The starting date is **now** (or soon)

Application

You are into a challenge and find this vacancy appealing? Then we are looking forward to receiving your motivation letter and CV!

Email: work@zepp.solutions

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