Software Engineer

Job Specification

Embed are hoping to welcome an experienced and enthusiastic software engineer. If you are a gifted programmer with the ability to get deep down to the circuit board level we would love to talk to you.

Here is a job description detailing what you would be doing on a day to day basis…

From the high-level, you would be developing software to an Automotive SPICE process. This means that you will be creating drivers and software components for our products and our customer’s products. Where for each software component you develop, you would also create a Module Design Specification detailing what the driver does and its interfaces. Along with the specification you will need to create a Test Specification that shows how your code delivers what it needs to. Then a Test Report proving how it all works. Whilst you are working on the software you will be checking the code into our SVN code repository, commenting on your progress on the job ticket via Trac. With the rest of the team you will help to integrate the software into the project. The types of projects we work on vary from Electric Vehicles to Microwave Ovens. Some have complex control requirements others have full touch screens and audio drivers. All of them need to be developed right, with good robust code, and proven to work.

Personal Skills

Good Communication Skills

Good written English

Driving license

Sense of humour and wanting to be part of close team

Mandatory Basic Skills

Embedded C Programming; NXP, ARM, ST, Renesas, Infineon

Knowledge of Microcontrollers

Embedded Interfaces; SPI, I2C, UART

Automotive Communication Protocols; LIN, CAN, Ethernet, UDS

Ability to write a Software Specification

Ability to meet a Software Specification

Unit Testing

Version Control

Intermediate Skills

Read electronics schematics

MISRA

AUTOSAR

Simulink

C++, Python,

Qt

Advanced Skills

Software Architect, the ability to design systems

Knowledge of the Simulink Code Generation process and how to customise it to your own ends.

Embed is an automotive embedded software and electronics company. We are focused on doing everything right. We look for the best way to solve problems. We are big believers in model based engineering, working smarter not harder. We always spend time understanding the problem before we recommend a solution.

PS. Our purpose is to spread happiness through the medium of excellent automotive software and electronics engineering.