



Embedded Software Engineer for Virtual Prototype development (f/m/div)*

Job description

Did you ever wish to help to create cleaner, safer and smarter cars? This role will give you the chance to pioneer a brand new development area in the Bucharest Automotive environment, making you a key person for virtual prototype development with a focus on Infineon's next generation's motor drivers. Embrace this stimulating challenge and help us create game-changing automotive semiconductors!

Virtual Prototypes (VPs) are advanced low-level software products that emulate complex hardware devices. In this role, you will be part of an international Infineon team to develop, support and maintain VPs for automotive SoC products.

In this new role, you will:

- Take full ownership from concept definition and development to verification and release of VP models
- Contribution to VP development methodology (eg: efficiency, tool integration, validation, partitioning, modularity, etc)
- Support and assist internal and external engineers (eg: firmware developers, hardware verification, application specialists) in **integrating device VP models into their own firmware test and application modelling environments**
- **Maintain, verify and enhance the VP model** (including associated test and deployment of components) in response to customer bug reports and feature requests
- **Responsible for test, release and deployment of updated VP model** to internal and external customers (eg: including custom embedded tests, Python test bench development, etc)
- Demonstrate the potential to **take on the role of technical lead/specialist developer for VP models**:

Are you curious about what we are developing? Take a look here:
<https://www.infineon.com/cms/en/product/power/motor-control-ics/>

Profile

You have good logical, analytical, and creative thinking skills and your passion is programming. You've had exposure and background in semiconductors/electronics. Nice to have is an experience in software development and software engineering. Moreover, you are motivated to work in a global team and you are an organized person, who is able to work independently.

At a glance

Location: **Bucharest (Romania)**
Job ID: **338749**
Start date: **as soon as possible**
Entry level: **3-5 years**
Type: **Full time**
Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **338749**
www.infineon.com/jobs

Contact

Tiago Novais
Talent Attraction Manager



You are best equipped for this task if you have:

- A Bachelors' degree in **Electrical Engineering, Computer Science/Systems Engineering, Automatic Control** or equivalent degree
- Mandatory **C++ experience**
- **Knowledge of SystemC** is highly desired
- Basic knowledge of IC topologies/concepts, microcontrollers, communication protocols, and SoC would be advantageous
- Experience in **MATLAB and Python** scripting, as well as **Simulink** modeling are of use
- Basic use of **debugging tools** such as Lauterbach TRACE32, Keil uVision
- Experience in **software testing** (Continuous integration, C++ test frameworks such as Gtest) would be highly advantageous
- Previous involvement in **Agile/Scrum** projects would be a plus

Benefits

- **Bucharest:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working hours at many sites; Home office options; Medical coverage; Health promotion programs; On-site gym with special rates; On-site canteens; Wage payment in case of sick leave based on applicable law; Corporate pension benefits for engineers; Performance bonus options; Accessibility, access for wheelchairs

Why Us

Part of your life. Part of tomorrow.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

** The term gender in the sense of the General Equal Treatment Act (GETA) or other national legislation refers to the biological assignment to a gender group. At Infineon we are proud to embrace (gender) diversity, including female, male and diverse.*

