



Lead Principal Engineer - Application Compute System (f/m/div)*

Job description

Have you heard of Infineon's ambitious masterplan to develop our next automotive microprocessor-microcontroller generation? Do you want to shape the future of smarter, safer and connected cars by solving complex technical challenges? Then we have a great opportunity for you! As a Lead Principal Engineer you will act as a key driver to define the architecture of compute systems for our automotive microcontroller families with focus MMU-based architectures and rich-OS operating systems such as adaptive AUTOSAR. With this position you will be entering our Technical Ladder: a special career path for those who share innovative ideas, demonstrate comprehensive technical knowledge, show thought leadership, possess problem solving abilities and are able to create business value.

In your new role, you will:

- **Define the hardware architecture of Compute Systems** with focus on **Hardware - Software** interaction
- **Ensure customer ease of use for compute applications** consisting of **classic and adaptive AUTOSAR software parts** to perform a **signal to service transition**, jointly with our lead software architects
- Ensure the right **sourcing of Compute Components** based on our application assumptions together with the platform architects
- **Provide the consistency between HW-SW concept** for the Compute System with respect to key applications such as modern zone controllers
- Ensure together with our SW team an **ease of software development**
- **Close cooperation with stakeholders in the organization and other business lines** within Infineon
- **Ensure cost competitiveness and compatibility** of the platform with respect to automotive quality and safety requirements
- **Expert consulting of line and project management** including clear technical direction setting regarding lean development and cost-awareness

This job is suitable for full- and part-time.

Profile

Acting as if Infineon is your own enterprise and always keeps the bigger picture in mind is part of your mindset. Supporting the team and department in continuously striving for the goal of "zero-defect" is not a problem for you. You treat co-workers, employees, and partners with trust and respect. You are best equipped for those tasks if you have:

At a glance

Location: **Munich (Germany)**
Job ID: **355492**
Start date: **Sep 01, 2022**
Entry level: **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: **355492**
www.infineon.com/jobs

Contact

Florian Nops
Talent Attraction Manager



- **A degree in electrical engineering, physics** or a similar field
- **At least 8 years of professional experience as concept and design system engineer** for microprocessor-based products
- Profound familiarity with **automotive microcontrollers** and open eyes & ears for market trends
- Expertise with different **CPU architectures** like **ARM, ARC** or **PPC** and heterogeneous **compute architectures**
- Strong experience with **classic and adaptive autosar applications**, knowledge of APIs is a plus
- Proven practical experience with **simulation systems** – e.g. OVP, GEM5, QEMU or FPGA based
- Know-how in **system modeling** based on **Matlab/Simulink** script language is a plus
- Expertise with **operating systems** and **virtualization & hypervisor SW**
- Hands-on experience in **product architecture documentation** and **requirements management**
- Excellent **English** communication skills and ideally a good command of **German**

Benefits

- **Munich:** 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 conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; On-site creche and kindergarden with 120 spots, open until 6pm; Holiday child care; On-site social counselling and works doctor; Health promotion programs; On-site gym, jogging paths, beachvolleyball, tennis & soccer court; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement ; Performance bonus; Reduced price for public transport and very own S-Bahn station; Access for wheelchairs

Why Us

Part of your life. Part of tomorrow.

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

– Automotive (ATV) shapes the future of mobility with microelectronics enabling clean, safe, and smart cars –

Our semiconductors are essential for supporting the automotive megatrends: electromobility, automated driving, connectivity, and advanced security. They link the real and the digital world, driving the ever-advancing pace of automotive digitalization. Infineon **ATV** is the number one semiconductor partner in the fast-changing automotive world, based on our system knowledge and our passion for innovation and quality. [Click here](#) for more information about working at ATV with interesting employee and management insights and an overview with more #ATVDreamJobs.

Automotive Microcontroller: We make cars clean, safe and smart

As a leading automotive microcontroller vendor, the Infineon business line **Automotive Microcontroller** (ATV MC) offers the industry's most comprehensive vehicle microcontroller portfolio and complements it with software. We serve automotive key applications, such as powertrain, advanced driver assist, chassis, body, instrument cluster and infotainment. We also address high-performance dependable computing, real-time domain and zone control, smart sensing and affordable artificial intelligence (AI) applications enabling the next stages of automated driving as well as higher levels



of car connectivity, digitalization and security.

Being at the core of this transformation, ATV MC contributes to shape the future of mobility enabling clean, safe and smart cars. So join us to create a better future together.

#AutomotiveMicrocontroller

** 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.*

