



Senior Staff Engineer for Platform and SoC Interconnect (f/m/div)*

Job description

Have you heard of Infineon's ambitious masterplan to develop our next hybrid automotive microprocessor-microcontroller (MPU-MCU) 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 our Architect for Platform Performance in our new Platform Architecture Team you will evaluate and benchmark the performance of our novel automotive platform. 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:

- **Derive product requirements** for the **on-chip interconnect** from application assumptions, stakeholder requirements and system architecture proposals
- **Define scalable architecture solutions** for the SoC interconnect covering comprehensive product families; the product architecture will include multiple compute clusters, external memory interfaces such as LPDDR, gigabit-speed communication links and application specific accelerator subsystems
- **Define and conduct feasibility studies**, evaluate solutions wrt. impact on **cost, performance and power as key KPIs**
- **Explore interconnect solutions** based on external vendor offerings as well as internal solutions and define a holistic approach for a new product architecture
- **Technically work in a community of SoC architects**, component architects, designers, physical implementation and verification engineers to ensure feature and performance fulfillment and also efficient implementation of the proposed interconnect solution
- **Pro-actively drive innovation** in the area of microcontroller platforms and **SoC architectures** based on profound understanding of future product needs and industry trends

Profile

You have a clear notion of how innovation contributes to the commercial success of the company, you constantly gain new insights by questioning existing assumptions and you inspire others for your ideas explaining even complex issues in a clear and convincing manner? Furthermore, you accept responsibility and accountability for decisions, and you are open to new challenges without knowing the right path to a solution in advance. If you remain aware of the big picture even in complex situations and take decisions despite uncertain circumstances, then you should join our team!

At a glance

Location:
Job ID: **334638**
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. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **334638**
www.infineon.com/jobs

Contact

Nadine Patriarca Roth



You are best equipped for this task if you have:

- A **degree in Electrical Engineering, Computer Science, Physics** or a related field, preferably a PhD
- At least 5 years of experience in technical roles in the area of **SoC architectures, design and implementation**
- Profound understanding of high- **performance embedded compute architectures** , **multi-core subsystems, related memory hierarchies** and **coherency solutions**
- Hands-on experience with **state-of-the-art interconnect solutions** such as **crossbars** or networks-on-chip supporting quality-of-service, security and functional safety features
- Detailed knowledge about industry-standard **bus protocols**, e.g. **AMBA** and its variants AHB, AXI, ACE, CHI
- Experience with **architecture exploration** and **performance simulation** of interconnect and compute elements
- **Automotive domain knowledge** is an essential plus i.e. in terms of microcontroller and processor architectures for automotive applications
- **Functional Safety** and **Security experience** is a plus e.g. experience with development according to ISO26262 or ISO21434
- The ability in working in **cross-functional teams** and in a **multi-cultural environment**
- Fluent **English communication skills**, **German** is appreciated

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.

– 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.



** 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.*