



## System-on-Chip Architect for Automotive Microcontroller (f/m/div)\*

### Job description

You enjoy technically complex product development and you like to shape actively the future of leading-edge system-on-chip (SoC) product families? Then we have a great opportunity for you. As our new Staff Engineer for SoC Architecture in our Automotive Microcontroller development, you will strongly contribute to the development of our novel SoC architectures from implementation concept throughout multiple development stages. With this position you will be entering our „technical ladder“: our career path for experts. You will be able to focus deeply on technology – while further pursuing your career. As you continually expand your expert knowledge, puzzle over matters and solve problems, you will position yourself as a thought leader – thus helping our products improve our world a bit more each day.

In your new role you will:

- Develop **SoC pad frame, interconnect and infrastructure (clock, reset, power)** in a holistic way, taking account of automotive safety and cyber security requirements
- Contribute to our **strategic focus of developing a scalable, modular and robust SoC** architecture to enable an efficient and flexible design implementation of domain-specific SoCs and SoC-SiP combinations
- Define **design implementation requirements** for the area of SoC pad frame, infrastructure and interconnect architectures and contribute to their implementation
- Conduct **feasibility studies** based on industry state-of-the-art solutions and technical constraints across the whole product value chain
- Identify innovative **product differentiation opportunities** in your focus areas
- Participate in **(pre-) development activities** for next generation high-performance microcontrollers
- Work in a cross-function team with System/Concept Engineers, Design, Verification, Functional Safety, Firmware and Post-Silicon Teams, in a close cooperation **within the Microcontroller Business Unit**

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

### Profile

Are you eager to learn and grow technically? You have a clear notion of how innovation contributes to the commercial success of the company and therefore concentrate your creativity and knowledge on producing results with real added value. If you furthermore cooperate across boundaries and appreciate the contributions of other

### At a glance

Location: **Munich (Germany)**  
Job ID: **363121**  
Start date: **Oct 01, 2022**  
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: **363121**  
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### Contact

**Nadine Patriarca Roth**  
Talent Attraction Manager



people, then you should join our team.

You are best equipped for this task if you have:

- A degree in **Electrical Engineering** or a related field
- At least **3-5 years of experience in SoC development** such as hands-on **SoC design development experience** in the areas of **SoC pad frame, interconnect, clock, reset or power**
- **Technical knowledge** of design implementation, integration, verification, design-for-test and physical implementation
- Experience in **state-of-the-art highly-scaled digital SoCs** based on latest CMOS technologies
- Understanding of **system-level dependencies**; understanding of interoperability with external components **is a plus**
- Automotive application domain knowledge and experience in control theory is a plus
- **Functional Safety and Security experience** e.g. experience with development according to ISO26262 or IEC61508 and ISO21434 **is a plus**
- **Professional self-organization** as well as the **ability to work in cross-functional teams and a multi-cultural environment**
- **Fluent English is a must**; German is appreciated

## 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 micro-electronics enabling clean, safe and smart cars –**

Semiconductors are essential to realize key trends like eMobility, automated driving and secure, connected cars. Infineon **ATV** is the #1 semiconductor partner in the fast-changing automotive world, based on our system knowledge coupled with our passion for innovation and quality. We are a key driver in the ever-advancing pace of digitalization in the automotive industry.

[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.*

