

Driving decarbonization and digitalization. Together.



Principal Engineer Hardware Architecture - Automotive Microcontroller (f/m/div)*

Job description

Have you heard of Infineon's ambitious plan to develop our next automotive microcontroller (MCU) product 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 Principal Platform Architect, you are defining the next generations of our Traveo™ and PSoC™ product families. You are working in a team of experience architects in close cooperation with the technical marketing, product lines and our worldwide product development teams. This role is ideally suited for ambitious junior architects, who are interested to work in close cooperation with the senior SoC architects and to grow mid-term into a technical leadership role. With this position you will join 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. This position can be preferably filled in Langen, our architectural competence center for Traveo™ and PSoC™ in central Europe. Alternative site is Munich.

In your new role you will:

- **Derive and consolidate the product requirements** for the Traveo™ and PSoC™ product families and based on marketing inputs, application assumptions, and stakeholder requirements
- **Propose a scalable and competitive product architecture**, and own the product feature set together with your peers in the architecture team
- **Define and conduct feasibility studies**; evaluate solutions with regard to the impact on cost, performance, power and the usability in software
- **Technically guide a community** of component architects, designers, physical implementation and verification engineers to ensure feature and performance fulfillment and also efficient physical implementation of the proposed solutions
- **Pro-actively drive innovation** in the area of microcontroller platform and SoC architecture based on profound understanding of **future product needs and industry trends**
- **Focus specifically on our Traveo™ and PSoC™ product families** in superior low power and low leakage capabilities, ultra-low cost solutions, and application-specific extensions for PSoC™, such as sensing and actuating functions, and high-voltage capability

This position is suitable for full- or part-time.

Profile

At a glance

Location:	Langen (Frankfurt am Main) (Germany)
Job ID:	HRC0532017
Start date:	as soon as possible
Entry level:	5+ years
Type:	Full time / Part 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: **HRC0532017**

www.infineon.com/jobs



Contact

Nadine Patriarca Roth



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!

You are best equipped for this task if you have:

- A **degree** in Electrical Engineering, Computer Engineering, Physics or a related field
- At least **6 years of experience in technical roles** in the area of **SoC architecture** and/or product design
- **Profound understanding of microcontroller architectures** and their key components such as CPUs, memories incl. embedded NVM, low power concepts, communication interfaces, mixed-signal functions and peripherals
- **Good understanding of external components** incl. bill-of-material aspects
- Basic understanding of **product development aspects** in pre- and post-Silicon areas
- Experience with **architecture exploration** and **Performance, Power, and Area (PPA)** estimation for cost-optimal development
- Ability to understand **platform development trade-offs** and negotiate with different stakeholders
- **Functional Safety and Security experience** is a plus (e.g. experience with development according to ISO26262 or ISO21434)
- **Automotive domain knowledge** is an essential plus i.e. in terms of microcontroller and processor architectures for automotive applications
- Professional **self-organization** and **leadership skills**
- Excellent technical leadership capabilities combined with good communication skills
- The ability to work in **cross-functional teams** and in a **multi-cultural environment**
- Fluent **English** communication is a must; German is appreciated

Why Us

Driving decarbonization and digitalization. Together.

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.

We are on a journey to create the best Infineon for everyone.

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant´s experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

