



System-on-Chip Lead 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 SoC Architect in our Automotive Microcontroller development, you will act as key driver in the R&D team to promote novel SoC architectures from implementation concept throughout all development stages. 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. This position can be filled in Munich, Langen or Duisburg.

In your new role you will:

- Pro-actively **lead the SoC architecture development** for new microcontroller devices considering automotive safety and cyber security requirements
- Own **design implementation requirements** for the area of SoC infrastructure control architectures
- Drive 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
- 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** to enable cost, power efficient and safe microcontroller devices
- Participate in **predevelopment activities** for next generation high-performance microcontrollers
- Act as the **global binding element** between System/Concept, Design, Verification, Functional Safety, Firmware and Post-Silicon Teams, in a close cross-functional cooperation **within and beyond the Microcontroller Business Unit**
- Act as a **mentor** and foster our technical community

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

Profile

You are accustomed to lead and drive technical topics within the SoC's development in large organizations at the interface between concept, architecture, design and

At a glance

Location:	Munich (Germany), Duisburg (Germany), Langen (Germany)
Job ID:	334248
Start date:	as soon as possible
Entry level:	5+ years
Type:	Full time
Contract:	Permanent

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Contact

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implementation. Therefore, you set the direction in SoC architecture and create value within the architecture and design teams. Simultaneously you understand the big picture and propose new technical solutions within the area of your responsibility. You are comfortable to communicate and document complex technical topics within cross-functional teams across the development organization. You are experienced to interact closely with technical leads as well as project and line management in a challenging and demanding environment.

You are best equipped for this task if you have:

- At least **8+ years of relevant experience as an architect or lead designer in SoC development, along with a degree in Electrical Engineering** or a related field
- Hands-on **SoC design development experience**
- **Profound knowledge about** 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
- A profound understanding of **system-level dependencies**; understanding of interoperability with external components, such as power management ICs or external memories **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 and leadership skills** 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; Sabbatical; Creche and kindergarden with 180 spots and opening times until 6pm; Holiday Child Care; On-site social counselling and works doctor; Health promotion programs; On-site gym, jogging paths, beachvolleyball, tennis and soccer court ; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement; Performance bonus; Cheaper ticket for public transport and very own S-Bahn station; Accessibility access for wheelchairs
- **Langen:** Möglichkeit für Coaching, Mentoring & Netzwerken; Trainingsangebot & strukturierte Entwicklungsplanung; Möglichkeit zur internationalen Entsendung; Verschiedene Karrierepfade: Project Management, Technical Ladder, Management & Individual Contributor; Flexible Arbeitszeit: Vertrauensgleitzeit; Möglichkeit zum Home Office; Offenheit für Teilzeit (auch in der Elternzeit); Gesundheits- & Vorsorgeprogramme; Versicherungsangebot zu attraktiven Konditionen; Lohnfortzahlung im Krankheitsfall; Arbeitgeberfinanzierte betriebliche Altersvorsorge; Erfolgsbonus; Barrierefreiheit am gesamten Standort

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 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.

Microcontroller

The Infineon business segment **MC** (Microcontroller) is strongly growing with latest TriCore Microcontroller generation AURIX, offering latest innovation in performance, connectivity, power consumption, safety and security. Furthermore, the key application segments are targeting segments with high innovation potential and highest market growth such as Advanced driver Assistant systems. As part of the automotive business unit the focus of MC is on the requirements of the automotive market from motor cycle to truck applications. #AutomotiveMicrocontroller

[Click here](#) for more information about working at ATV with interesting employee and management insights and an overview with more #ATVDreamJobs.

** 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.*

