



Lead Principal Design Engineer Automotive Microcontroller Communication (f/m/div)*

Job description

Are you an experienced technical expert fascinated by the future of mobility? Then join our Automotive Microcontroller Product Development team to design microcontroller communication IPs for different automotive applications! As Lead Principal Engineer Digital Design you will secure the scalability of our microcontrollers over device families, packages and applications, and optimize your design by working with experts from various Infineon teams. 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:

- Be responsible for **planning and implementing digital design subsystems and IPs** for automotive microcontroller communication interfaces
- **Parametrize complex third parties IPs** according to product specific requirements and **integrate into subsystems**
- Derive **design micro-architecture** from architectural specification and requirements
- **Network cross-functionally** with Cluster Architects, System/Concept Engineers, Application Engineers, Functional Safety Management, Design, Verification, Post-Silicon Teams and Central Service Providers to fine tune the design and lead to efficient verification and implementation cycles
- **Generate complex Digital IP designs**, working alone or as part of a larger design team as well as be responsible for **design quality checks** by synthesis, structural checks (e.g. lint, CDC, RDC), design for testability, power analysis, etc.
- **Own and create design related documentation** to comply with relevant standards for safety (ISO 26262) and security (ISO 21434)
- **Represent technical competence, act as mentor, share your knowledge and foster talent** within and beyond your own team

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

Profile

You are open to new challenges without knowing the right path to a solution in advance, whereby you accept responsibility and accountability for your decisions and drive active risk management? Furthermore, you continuously and proactively work on improving efficiency by observing trends and upcoming innovations? If you are

At a glance

Location:

Job ID: **349950**

Start date: **as soon as possible**

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: **349950**

www.infineon.com/jobs

Contact

Florian Nops

Talent Attraction Manager



additionally able to quickly establish a successful cooperation across boundaries and appreciate the contribution of your colleagues, then the role as Lead Principal Engineer Digital Design might be the right fit for you!

You are best equipped for this task if you have:

- A degree in **Electrical Engineering, Computer Science, Physics** or a related technical field
- At least **8 years of relevant working experience within the semiconductor industry** in the area of **power-efficient RTL design** (VHDL or SystemVerilog) with a natural understanding of how RTL will map to gate-level structures
- Knowledge about **safety standards and applications** (e.g. ISO 26262) as well as an interest in security
- Good knowledge in **automotive communication protocols** like Ethernet, PCIe, CAN, SPI, SENT would be preferred
- Proven ability to **work in a team of designers to undertake larger design projects** as well as proven ability to solve problems with higher complexity by pro-actively involving expert networks
- Working experience in **international and cross-functional technical teams** within a multi-cultural environment
- Excellent **English** communication skills, German language skills are a plus

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.*

