



Principal Systems Engineer Sensor Interfaces Automotive Microcontroller (f/m/div)*

Job description

Have you heard of Infineon's ambitious masterplan to develop our next automotive microprocessor-microcontroller 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 Systems Engineer Sensor Interfaces Automotive Microcontroller you will act as a key driver in our growing Automotive Microcontroller Team to define the High-Speed Interfacing architecture of our next microcontroller product generation. 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.

As Principal Engineer for Automotive Microcontroller Sensor, Inter Processor and Wireless Interface Systems (e.g. MIPI CSI-2, I3C, D-PHY, M-PHY, A-PHY, USB, PCIe, Bluetooth, WLAN) you will:

- Define **new system architecture for high speed sensor interface and communication functions** on physical and link layer and transfer requirements to our development teams
- **Close cooperation** with technical marketing team, platform lead architects, system architects, SW development, design teams, test teams and provide active knowledge sharing
- Ensure **cost competitiveness and compatibility** with respect to automotive quality and safety requirements (ISO 26262)
- **Prepare decision proposals** for make or buy decisions and derive the right HW /SW split
- **Own and create technical documentation** in order to provide the requested functional descriptions
- As **Technical Interface** to both internal and external IP providers you are:

- Responsible of technical topics within IP analysis phase
- Actively looking in synergies between different solutions
- Challenging requirements to achieve best area-power-performance ratio and understand Power- and Signal-integrity

Profile

We are looking for someone with a passion for the future of mobility and the ambition to work in an international team. Your relationship building skills enable you to establish successful cooperation very quickly. You inspire others for your ideas and even complex issues you can explain in a clear and convincing manner. You listen

At a glance

Location:

Job ID: **353096**

Start date: **Aug 01, 2022**

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: **353096**

www.infineon.com/jobs

Contact

Sören Schmögner

Talent Attraction Manager



actively to the internal customers, consider his point of view and learn from successes and mistakes.

You are best equipped for those tasks if you have:

- A **degree in electrical engineering** or a similar field
- At least **6 years of relevant work experience** as concept, design and system engineer
- Familiarity with **automotive microcontroller architecture** and open eyes & ears for market trends
- Key expertise with different **high-speed interfaces context physical layer and link layer in Automotive**, Consumer and Networking applications, wireless protocol are a plus
- Know-how in **high speed clocking architectures** and understanding power effects
- Experience with **abstract system modelling level techniques** and system performance simulation
- Technology understanding in **advanced technology nodes (FinFET)**
- Knowledge of **Design for Manufacturability** and Design for Reliability methods
- Hands-on experience in product architecture documentation and requirements management, including **ISO26262 and security standards**
- **Excellent English communication skills** and ideally a good command of German

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.*

