



Lead Architect Platform Partitioning (f/m/div)*

Job description

Have you heard of Infineon's ambitious masterplan to develop our next hybrid 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 Lead Architect for Platform Partitioning you will act as a key driver in our new Platform Architecture Team to define the partitioning of our novel platform architecture. 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, Duisburg, Bristol (UK) or Langen.

In your new role you will:

- **Define the platform partitioning** of our **next hybrid microprocessor /microcontroller product generation** with respect to the chipset: main compute die, **companion SoCs**, external memories and power supply chips
- Be the **Lead Architect for the control** and **mixed-signal centric companion SoCs**
- **Define the chipset interconnect concept** among the internal and external components incl. their hierarchies
- **Ensure a consistent HW-SW concept** for the main compute and companion SoCs wrt. key applications such as **modern zone & domain controllers, central car compute companions and gateways**
- **Drive a platform differentiation strategies** wrt. dependability and availability, e.g. via **functional isolation**, implementation based and/or technology-based isolation within a hybrid SoC-SiP concept
- **Cooperate closely with expert teams** such as platform lead architects, subsystem architects, FW and SW development, design teams, and other business lines within Infineon
- **Ensure cost competitiveness and compatibility of the platform chipset** wrt. automotive quality and safety requirements
- **Define requirements and establish methodologies for platform chipsets** incl. **SoC-Package-SiP co-design** and **SOC-Package-PCB** interactions
- Consult line and **project management** and provide **clear technical direction setting** wrt. to **lean development** and **cost-awareness**

Profile

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

At a glance

Location:	Bristol (United Kingdom), Langen (Germany), Munich (Germany)
Job ID:	322199
Start date:	as soon as possible
Entry level:	5+ years
Type:	Full time
Contract:	Permanent

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Contact

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convincing manner. Furthermore, you accept responsibility for decisions and for their positive or negative outcomes taking on new challenges without knowing the right path to an eventual 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 those tasks if you have:

- A **Degree in Electrical Engineering, Physics** or a related field
- At least **10+ years of experience** as **platform or SoC architect** in the area of **microcontroller or microprocessor based products**
- **Expert knowledge** in following platform components: **mixed-signal** and **power supply components, memories** (DRAM, eNVM, external NVMs)
- **Expert knowledge** in **standard external interfaces** (LPDDR, X-SPI, I2C, GETH, PCIe), **automotive specific interfaces** and **newer chip-to-chip interfaces** for SiP integration
- Hands-on experience in **product architecture documentation** and **requirements management**
- Basic knowledge in **HW-SW dependencies**, and **digital/mixed signal design, packages** and **CMOS technologies** is a plus
- The ability to **understand platform development trade-offs**
- **Excellent technical leadership capabilities** combined with good communication skills
- **Functional Safety and Security experience** is a plus (e.g. experience with development according to ISO26262 or IEC61508 and ISO21434)
- The ability to work in cross-functional teams and a multi-cultural environment
- Fluent **English communication skills** is a must; **German** is appreciated

Benefits

- **Bristol:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor ; Flexible working conditions; Part-time work possible (also during parental leave) ; Sabbatical; Medical coverage; Labor gymnastics; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; IFX Success Bonus and Spot Awards; Accessibility, access for wheelchairs
- **Langen:** 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); Health promotion programs; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Performance bonus; Access for wheelchairs
- **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



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.

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

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

** 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.*

