



Digital Architect - Automotive Microcontroller Communications Subsystems (f/m/div)*

Job description

Are you ready to make a difference in car safety? Do you want to take up a new challenge within our automotive division? Do you actively look for the best solution while setting up the direction in your field of expertise? We develop and deliver the technology, so come and be part of shaping the future within the automotive industry as our new Digital Architect! Come on board and join us at the pulse of technology!

As a Digital Architect, you will be part of different phases of the development process, interacting closely with other teams, like Design and Application Engineering. You will have the responsibility to define the architecture of the products, in order to fulfill certain requirements.

In your new role you will:

- Define the **micro-architectures** for our upcoming Traveo-III family of Automotive Microcontrollers, with particular attention to **CPU Subsystems** (Realtime, Application), **AUDIO Subsystems** (Voice Det, Noise Cancellation, Interfaces), **Communication Subsystems** (Ethernet, CAN, FLEXRAY), **Memory Subsystems** (FLASH, RRAM, External DDR).
- **Collaborate with experienced Architects and RTL designers** to assess the feasibility of ideas, refine ideas, and seed new ones.
- Analyze **domain-specific workloads** to identify **performance and power bottlenecks** and **opportunities for improvement**.
- **Work closely with a diverse and dispersed team**, so you must have strong communication, influence, and negotiation skills.

Profile

You are a result-oriented person with a problem-solving mindset. You are quality-oriented, self-motivated, and remain focused on solutions even in complex situations. You will be setting direction. Therefore, you must be comfortable in an environment of uncertainty and be able to work through ambiguities. We are a data-driven group and believe in the power of individuals proving their own ideas so it is great if you have hands-on experience with high-level simulators for performance and power estimation.

You are best equipped for this role if you have:

- A **University Degree** in **Electronic** or **Computer Engineering**;
- Approximately **10+ years of experience** and knowledge of **digital micro-architecture concepts** as well as deep expertise in one or more focused **areas** (e.

At a glance

Location: **Dublin (Ireland), Cork (Ireland)**
Job ID: **330323**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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Contact

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g. signal processing, automotive communication protocols) or **CPU subsystem areas** (e.g., bus infrastructure, memory subsystem design);

- Experience with **ARM Cortex M/ R class CPUs** and **AHB/AXI** interconnects would be beneficial.
- Proficiency in **SW languages** (e.g. C, C++).
- Proficiency in a **HDL** (e.g. Verilog, VHDL, SystemVerilog).
- Proficiency in **scripting languages** (e.g. Perl, Python)
- Knowledge and experience with common performance **benchmarks and workloads**.

Benefits

- **Dublin:** Coaching, mentoring networking possibilities ; Wide range of training offers & planning of career development; Different career paths: Technical Ladder, Management & Individual Contributor; Flexible working conditions; Medical coverage; Health promotion programs; On-site Kitchen available ; Company Sick Paid Leave Scheme; Company Pension Scheme ; Annual Success Bonus Scheme; Monthly Commuter Ticket fully expensed by Company ; Accessibility, access for wheelchairs

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 realizing 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.*

