



Real-Time Core Subsystem Architect (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 Real-Time Core Subsystem Architect! Come on board and join us at the pulse of technology!

As a Real-Time Core Subsystem 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 next generation AURIX™ family of automotive microcontrollers, with particular attention to real-time CPU subsystems, bus infrastructures and memory subsystems;
- 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 CPU subsystem areas (e.g., real-time core integration, bus infrastructure, memory subsystem design);
- Experience with e.g. ARM Cortex R class CPUs and AHB/AXI interconnects;

At a glance

Location: **Dublin (Ireland)**
Job ID: **337603**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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Job ID: **337603**
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Contact

Daniela Ferreira
Talent Attraction Manager



- Experience with real-time operating systems (RTOS);
- Experience with timing optimization and closure, power architecture, power islands;
- Experience in automotive safety and cybersecurity (ISO 26262, ISO 21434);
- Experience in RTL to GDS flow;
- 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 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.

