

Driving decarbonization and digitalization. Together.



Senior System Architect Engineer (f/m/div)

Job description

As a Senior Concept Engineer for Magnetics Sensors you collaborate with a network of skill experts to define the architecture of TMR and Hall-based Magnetic sensors for Automotive and/or Consumer applications. In this role you have the technical overview over the sensor product throughout its entire development, from idea definition up until the start of production. Your responsibility starts with understanding the provided product or subsystem requirements, after which you define the internal architecture and module requirements and then you define how are these integrated and verified in the larger context.

By having access to previous product data, simulations and a broad community of experts you will look for optimal technical solutions to fulfil requirements in area of responsibility. At the same time, you will have the chance to try out your riskier and more innovative solutions on dedicated test products, outside of the productive development flow.

In your new role you will:

- Define **architectures** for future TMR and Hall-based Magnetic Integrated Sensors
- Create **high level models** using MATLAB and/or Python to demonstrate the **technical feasibility** of proposed solutions
- **Generate specifications** for analog/digital modules and firmware components in order to fulfill the overall requirements
- **Review outcome** of implementation and verification activities against the architecture specification
- Closely **cooperate with cross-functional project members** as Technical Marketing, Analog & Digital Design, Firmware Development, Technology Development, Lab Verification & Test Engineers
- Create and maintain specification database
- Explore **new architectures and circuit, test and verification concepts** to meet Product Roadmaps and future industry trends
- Create and review **patents**.

Profile

You cooperate across boundaries and contribute to a great team atmosphere by open and constructive communication. You are able to constantly switch focus from product to application and back, while keeping in mind the big picture. You decide and act despite uncertain circumstances.

You are best equipped for this task if you have:

At a glance

Location:

Job ID: **HRC0448288**

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. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **HRC0448288**
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Contact

Carlos Ribeiro
Recruiter



- Master's degree or a PhD in **Electrical/Electronic Engineering or Applied Physics** or equivalent field.
- **5+ years** expertise in semiconductor product definition, product design or testing (integrated or discrete)
- Experience in modeling product performance and/or behavior **using MATLAB Simulink, SystemC, Verilog-AMS, Python** or similar.
- Knowledge of **circuit compensation techniques, statistical data analysis** and/or **digital signal processing algorithms** is beneficial
- Fluency in **English**.

We value applications from people passionate about microelectronics! If you don't entirely meet the requirement, we will provide you the right training plan and mentorship, as part of a team that will ensure fast ramping up of your knowledge and skills. We support each other and we keep our promises.

Benefits

- **Bucharest:** 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 hours at many sites; Home office options; Medical coverage; Health promotion programs; On-site gym with special rates; On-site canteens; Wage payment in case of sick leave based on applicable law; Corporate pension benefits for engineers; Performance bonus options; Accessibility, access for wheelchairs; Possibility to work remotely from abroad (EU)

Why Us

Driving decarbonization and digitalization. Together.

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.

We are on a journey to create the best Infineon for everyone.

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant's experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

