

Driving decarbonization and digitalization. Together.



Principal Engineer IC Design Architect (f/m/div)

Job description

Do you have an innovative mindset, excellent communication skills and looking for a new challenge? In your new role as a Principal Engineer IC Design Architect, you will be responsible to develop “right-fit” circuit concepts for Industrial and Automotive application based on system and customer requirements. Join the team in Pavia, where you will find the right environment and a culture that promotes commitment, boosts trust, and drives innovation!

As a Principal Engineer IC Design Architect, you will develop circuit concepts and design analog/mixed signal circuit IP according to the hardware requirements. You will collaborate with Layout Experts, Verification Engineers and Test Development and foster fruitful relationships with Technical Marketing and Application Engineering teams.

In your new role you will:

- **Develop "right-fit" circuit concepts for Industrial and Automotive application** based on system and customer requirements, with a sharp focus on time to market
- **Validate concepts** through sophisticated behavioral modeling, **enabling comprehensive use-case analysis and robust product verification**
- **Design analog/mixed signal circuit IP according to the concepts and hardware requirements** fulfilling design for test and design for manufacturing needs as well
- Collaborate with **Layout Experts, Verification Engineers and Test Development**, getting the designs ready for mass production
- **Debug designed circuit IP in the laboratory**, challenging your excellent problem-solving skills
- **Foster fruitful relationships with Technical Marketing and Application Engineering**, ensuring exceptional support and engagement
- **Ignite innovation by generating groundbreaking circuit ideas** and actively participating in exciting innovation projects
- **Perform cutting-edge feasibility studies for new IP's** propelling us ahead of the competition
- **Drive continuous improvement** through close cross-functional collaboration, unleashing our collective potential
- **Cultivate and share your expertise within the Infineon expert network**, mentoring and coaching colleagues and students alike.

Profile

At a glance

Location:

Job ID: **HRC0922495**

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: **HRC0922495**
www.infineon.com/jobs

Contact

Regan Lottering
Recruiter



Being a result-oriented person with a strong problem-solving mindset, you aspire to achieve outstanding results with passion, remaining focused on solutions even in complex situations. You like to take initiative and strive for continuous improvement with your interest in strong customer interfacing. You contribute to a great team atmosphere with your agile and team orientated working style.

You are best equipped for this task if you have:

- A university degree in **Electrical Engineering** or equivalent field of studies
- At least **5 or more years of relevant work experience**, with a remarkable focus on **analog and mixed signal chip design**
- Proficiency in **design and behavioral modeling tools** such as **Spectre, Avenue or SystemC**
- **Automotive and Functional Safety background** is a strong plus
- Exceptional **problem-solving skills** and the ability to **thrive independently**, ensuring no obstacle stands in your way
- **Strong English skills** are a must, while Italian proficiency or a willingness to learn would be a remarkable asset.

Please send us your CV in English.

Why Us

#WeAreIn for driving decarbonization and digitalization.

As a global leader in semiconductor solutions in power systems and IoT, Infineon enables game-changing solutions for green and efficient energy, clean and safe mobility, as well as smart and secure IoT. Together, we drive innovation and customer success, while caring for our people and empowering them to reach ambitious goals. Be a part of making life easier, safer and greener.

Are you in?

– At our R&D center in Pavia we develop next generation Industrial and Automotive applications –

In Pavia we design and test cutting-edge integrated circuits and modules that are at the heart of the worldwide decarbonization initiative. Our devices allow to avoid energy waste in applications such as: solar panels, wind turbines, battery chargers, electrical engine control.

People who join our team enjoy an inclusive and open-to-diversity culture; we are enthusiastic for all aspects of technology and also eager to improve our planet health with the devices we create.

– Green Industrial Power (GIP) empowers a world of unlimited green energy –

The **GIP division** delivers leading semiconductor solutions for the smart, green, and efficient conversion of electrical energy, covering all steps in the energy chain from generation through transmission to storage and consumption. Its broad range of applications spans renewable energies, electric vehicle charging, industrial power supplies, trains, electric commercial vehicles, and home appliances.

The GIP product portfolio encompasses IGBT power transistors and the driver ICs that control them, flanked by an expanding lineup of solutions based on SiC. Its growing analytics, service, and software offering complements this wide spectrum – reaching beyond products to create additional value for customers. Infineon is the global number one in power semiconductors and – with the broadest portfolio of SiC solutions for industrial applications – GIP is leading the transition to wide-bandgap technologies. GIP solutions handle energy more intelligently and efficiently – driving decarbonization for a better tomorrow.

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

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.

