



Principal Engineer Automotive Systems & Artificial Intelligence (f/m/div)*

Job description

The automotive industry is undergoing the most profound transformation in its history. New drive technologies and artificial intelligence are enabling previously unimagined improvements in areas such as vehicle dynamics, driver assistance and autonomy. As Principal Engineer Automotive Systems & AI, you will be at the center of this revolution, developing new algorithms & solutions for systems with embedded AI that combine classical automotive needs as real time, safety & security with artificial intelligence in the Development Center Dresden.

In detail, you will be responsible for topics like:

- Understand **automotive applications and market trends** in the area of artificial intelligence
- Be part of development of prototypes including new artificial intelligence methods to enhance applications in the area of **vehicle dynamics, eMobility, ADAS, autonomous driving or similar areas**
- **Drive application focused use-case studies** with regards to execution time, power consumption, real-time behavior and other relevant aspects for different semiconductor components (e.g. processing units or sensors)
- **Partitioning of application needs** into hardware & software requirements
- **Selection of efficient AI algorithms** that fulfil their application purpose, real-time needs, safety constraints & limited calculation power on AI on the edge devices
- Manage **project documentation & reporting** from technical side
- **Collaborate** closely in your field with **different departments & sites around the globe**
- **Technical coordination** of activities from a system view considering **cross-domain aspects**

Profile

These qualifications make you our top-candidate:

- A **degree in technical studies** like Electrical Engineering, Physics or Information Technology
- At least 10 years of **professional experience in the field of embedded software for automotive and/or artificial intelligence**

At a glance

Location: **Dresden (Germany)**
Job ID: **351974**
Start date: **Oct 01, 2022**
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:

Job ID: **351974**
www.infineon.com/jobs

Contact

Elisa Stasch
Talent Attraction Manager



- Profound & proven knowledge in **Embedded AI, AI on the edge, machine learning, neural networks, deep learning** & equivalent areas
- Profound & proven knowledge in **Embedded Software Architecture and Software Flows and Tools for AI**
- **Knowledge of hardware architecture** like ARM, MIPS, NVIDIA or Tricore **will be an advantage**
- Profound & proven knowledge in **tools & programming languages** like TensorFlow, KERAS, Matlab, Python, Embedded C/C++
- Knowledge in some **automotive applications** like assisted driving, autonomous driving, eMobility, vehicle dynamics, RADAR, Sensor fusion or battery management system will be an advantage
- **Good communicator and excellent team player**
- **First experience as a technical lead will be an advantage**
- **Fluent German and English skills**

Benefits

- **Dresden:** 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 in office jobs; Home Office possibilities; Part-time work possible (also during parental leave); Spots in local kindergarden; On-site social counselling and works doctor; Health promotion programs; Fitness Room; 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, car sharing, charging station for e-cars and e-bikes; 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.

The **Development Center Dresden** was launched in 2019 and is growing successfully. Today, more than 80 top-class experts and young talents from 14 nations are working on research and development of new products and solutions for automotive and power electronics, chip design and verification, characterization of complex systems as well as development of products and solutions with artificial intelligence. In the long term, the Development Centre will employ around 250 people. State-of-the-art research and characterization labs facilitate R&D activities for automotive applications, Electromobility and AI chips of the next but one generation. The Development Center covers the complete development value chain from product and system definition to qualification.

This is the right place for you, if you want to work in a high-tech environment, master challenges of advanced product development, be part of a multicultural team with



great spirit and experience a startup-like culture.

[Click here](#)

for more information about working at DC Dresden with interesting employee and management insights and an overview with more Jobs at #DCDresden.

** 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.*

