



Senior Expert Artificial Intelligence Algorithms for Automotive Applications (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 Senior Expert Artificial Intelligence Algorithms for Automotive Applications, you will be at the center of this revolution, developing new algorithms which enable next generation Automotive 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:

- **Select and/or define efficient AI algorithms for different automotive application use-cases**, e.g. e-mobility, automated driving, sensor systems etc.
- **Ensure that those algorithms fulfil their application purpose, real-time needs, safety constraints & limited calculation power on AI on the edge devices**
- **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
- **Participate in application focused performance studies** with regards to execution time, power consumption, real-time behavior and other relevant aspects for AI on the edge
- **Support project documentation & reporting from technical side**
- **Collaborate closely in your field with different departments, sites and universities around the globe**

Profile

These qualifications make you our top-candidate:

- A minimum of **5 years of relevant experience or a PhD in Mathematics, Physics, Information Technology or Electrical Engineering**
- Good knowledge in **machine learning, neural networks, deep learning, Embedded AI, AI on the edge** or equivalent areas
- **Good knowledge in tools & programming languages** like TensorFlow, KERAS, Matlab, Python, Embedded C/C++

At a glance

Location: **Dresden (Germany)**
Job ID: **351975**
Start date: **Oct 01, 2022**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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Contact

Elisa Stasch
Talent Attraction Manager



- **Knowledge of hardware architecture** like ARM, MIPS or Tricore will be an advantage
- **Excellent team player**
- **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, a total of 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.

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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.*

