



Master Thesis: Reliable AI for Consumer Sensors (f/m/div)*

Job description

Semiconductor devices are able to imitate human senses. Microcontroller process data and information like the human brain, radar systems serve as eyes of products and MEMS microphones as the ears of mobile phones. The objective of the thesis will be to set up a suite of algorithms and software libraries in Keras and Tensorflow and document performance, complexity and memory tradeoff. Could we make you curious? Then apply now to dive deeper into your master thesis!

In your new role you will:

- Develop **techniques for robust and trustworthy AI** in the area of consumer sensors
- **Assess algorithm performance** on a real measurement data base
- **Provide feedback** to our sensor technology team
- Support in setting up a **suite of algorithms and software libraries** in Keras and Tensorflow
- **Documentation of performance, complexity and memory tradeoff**

Profile

You are best equipped for this task if you:

- Will soon finish your Master studies in **Electrical Engineering, Physic, Chemistry** or something similar
- Already gained experience in the field of **signal processing for sensor applications**
- Bring along knowledge for **Machine Learning and Deep Learning algorithms**
- Are skilled in **programming languages** like Python, Tensorflow and Keras

Please attach the following documents to your application:

- CV in English
- Certificate of enrollment at university
- Latest grades transcript
- High school report

Benefits

At a glance

Location: **Munich (Germany)**
Job ID: **362728**
Start date: **Oct 15, 2022**
Entry level: **0-1 year**
Type: **Full time**
Contract: **Temporary**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **362728**
www.infineon.com/jobs

Contact

Silke Jaschik
Student Attraction Manager



- **Munich:** 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; Home office options; Part-time work possible (also during parental leave); Sabbatical; On-site creche and kindergarden with 120 spots, open until 6pm; Holiday child care; On-site social counselling and works doctor; Health promotion programs; On-site gym, jogging paths, beachvolleyball, tennis & soccer court; 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 and very own S-Bahn station; Access for wheelchairs

Why Us

Part of your life. Part of tomorrow.

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

– Power & Sensor Systems (PSS) drives leading-edge power management, sensing, and data transfer capabilities –

Infineon **PSS** semiconductors are enabling intelligent power management, smart sensitivity, and fast, reliable data processing in an increasingly digitalized world. Our state-of-the-art power and connectivity devices make chargers, servers, mainboards, power tools, and lighting systems smarter, smaller, lighter, and more energy-efficient. In addition, our trusted sensors give things an intuitive sensing capability to make them contextually aware, and our RF chips support fast and reliable data communications.

** 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.*

