Principal Engineer Radar Algorithm (f/m/div)*

Job description

Do you want to work on modern radar sensors with integrated antennas and modern measurement equipment? Here you will work on radar in consumer applications, e.g. gesture sensing, vital sensing and segmentation. You will develop algorithms, define the needed software architectures and also bring up the algorithms on microcontrollers. And this is where you come into play! Sounds interesting? Then apply now? With this position you will be entering our Technical Ladder: a special career path for those who share innovative ideas, demonstrate comprehensive technical knowledge, show thought leadership, possess problem solving abilities and are able to create business value.

In your new role you will:

- **Develop algorithms in Matlab or Python** for Infineon 60 GHz consumer radar devices, with suitability of algorithms for microcontrollers in mind
- **Analyze the use cases**, e.g. vital sensing or people location and define the requirements
- **Test** the developed algorithms
- Strong focus on **reusability of algorithms and scalability** (e.g. for devices with different number of transmit and receive antennas)
- Drive **improvement of methodology**
- Drive **strategic orientation for use case development**
- Stay up-to-date on **latest research** in order to bring innovations into our business lines

Profile

Do you have the passion and the courage to develop new and creative ideas? If you have a clear notion of how innovation contributes to the commercial success of the company and if you recognize and use different areas of expertise of the team members, then you should join our team!

You are best equipped for those tasks if you:

- Have a degree in **Information Technology, Machine Learning, Data Science, Electrical Engineering** or comparable, **ideally a PhD**
- Have at least **6 years of working experience**
- Are open for **innovation and challenging approaches**
- Have a **deep background in signal processing**, specifically radar signal processing, Matlab, Python

At a glance

Location:	
Job ID:	**349836**
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:

Job ID: **349836**
www.infineon.com/jobs

Contact

Julie Danielsen Larsen
Talent Attraction Manager

- Ideally also have a **background in machine learning** incl. Tensor Flow Lite
- Have an **understanding of the implications running the algorithms on Microcontrollers** (RAM, flash, compute load)
- Have **excellent English language skills** in verbal and written communication

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.

Click here for more information about working at PSS with interesting employee and management insights and an overview with more #PSSDreamJobs.

* 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.