Principal Systems Architect - Radar/Sensor Fusion

Job description

This is a key individual contributor role in Infineon Technologies Silicon Valley Automotive Innovation Center team, providing systems and applications engineering support for Infineon's automotive sense and control products. In this position, you will work closely with various key third party solution partners and customers to design develop and debug sensors (Radar and LiDAR) for autonomous vehicles.

In your new role you will:

- **Evaluate and develop new radar sensor concepts and signal processing algorithms based on our 77 GHz MMIC and microcontrollers**
- Provide hardware and software technical support to customers and third party partners for the integration of Infineon Radar chipsets in ADAS and Automated driving solutions
- Work closely with corporate applications engineering team to define, deploy and implement reference designs for ADAS and Automated Driving sensors
- **Development and testing of signal processing algorithms for radar sensors in Level 3/4/5 autonomous vehicles**
- Create applications notes and training material for Infineon Radar chipset in Automated Driving solutions segment
- Create demo software algorithms and applications on microcontroller utilizing the dedicated hardware accelerators for 77 GHz radar sensor processing

Profile

You have advanced communication skills, demonstrate professionalism and business integrity in all your customer interactions. Your strong technical knowledge is a valued contribution on this dynamic team with varied skill sets. You have a knack for juggling multiple tasks and priorities effectively, responding and solving customer problems, using disciplined methodology and collaborating with others software development practices.

You are best equipped for this task if you have:

- B.S in Electrical Engineering or Computer Engineering; Masters and P.h.D preferred
- 6+ years of prior experience in radar systems design and/or signal processing algorithms
- Experience in analyzing data, developing tools and algorithms in MATLAB
- Knowledge and understanding of microprocessor/DSP hardware design and associated software architectures
- **Understanding of advanced driving assistance sensors like Radar, Lidar and Camera, digital signal processing of sensor data and sensor fusion algorithms**
- Good understanding of board level and/or system level design experience, especially in design of automotive embedded systems

At a glance

Location:	**Milpitas, CA**
Job ID:	**309482**
Start date:	**immediately**
Entry level:	**6+ 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: **309482**
www.infineon.com/jobs

infineon

- Strong system debugging background, e.g. ability to work with common lab tools like logic analyzers and oscilloscopes
- Ability to work cross functionally with various groups located in multiple sites and geographies. Key partners include the Sales, Marketing, Software Engineering and Systems Engineering teams
- Ability to travel domestic and international

Infineon **Automotive (ATV)** semiconductors are essential to make automotive trends like electro-mobility, automated driving, and the secure, connected car become reality.

As your #1 semiconductor partner in the fast-changing automotive industry, Infineon is building more intelligence, responsiveness and autonomy into transport systems while contributing to a more sustainable future. We are a key driver in the ever-advancing pace of digitalization in the automotive industry **.**

– W e shape the future of mobility with microelectronics enabling clean, safe, smart cars –