



## Staff Engineer, Algorithm Development and Support

### Job description

As a member of a dynamic engineering team for Infineon Technologies, you will work with industry leading sensor technologies and collaborate closely with world class leaders in the consumer electronic market. Using your expertise you will guide and collaborate to innovative ideas and new user experiences in customer designs using our sensors, including Infineon's mmWave radar. In this role, you will work with various teams both locally and globally to help drive company design win targets towards the end result of generating company revenue. You will be supporting and creating SW algorithms and SDKs for sensor products including implementing features and ideas that will contribute to future company growth and help shape the consumer electronics of tomorrow. We value your expertise, motivation, and enthusiasm to independently work through challenging tasks and drive topics to completion. We commit to making your experience at Infineon Technologies successful.

#### In your new role you will:

- Develop, implement and fine tune software & algorithms for radar sensor technologies and integrate them into consumer/industrial level electronics (ARM /uC based)
- Ability to understand application requirements and to translate them into production ready state-of-art algorithms
- Active role in identifying new trends in research related to sensor fusion, Human machine interfaces, machine learning
- Develop engineering proof of concept prototype, for internal and external customer evaluation
- Support full software lifecycle including design, development, debugging, and testing
- Develop and maintain various engineering tools used to debug, analyze, and test
- Apply your DSP and algorithm experience to drive sensor technology into consumer and industrial systems
- Provide expert technical guidance and support for customer product designs and platforms
- Utilize your expertise to develop and support RADAR sensor algorithms
- Develop, customize, and optimize algorithms specific customer use cases and requests
- Resolve technical problems in customer designs and platforms at all stages of the customer's product cycle
- Create application notes and other tools to aid in the design-in process
- Apply your expertise and skillset to provide technical guidance to the collective team and support our field engineering team

### At a glance

Location: **(Hong Kong,)**  
Job ID: **56152**  
Start date: **immediately**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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Job ID: **56152**  
[www.infineon.com/jobs](http://www.infineon.com/jobs)



- Understand technical and competitive trends in DSP algorithms, embedded software, machine learning, and other innovative trends that are enabling sensor technologies and applications
- Collaborate with Product Development and Marketing with new product ideas based on customer's future product requirements and system needs

## Profile

### You are best equipped for this task if you have:

- Undergraduates in Computer Engineering, Electronics Engineering, Computer Science with strong programming and mathematics skills; Postgraduates is preferred
- 5+ years of relevant working experiences
- High proficiency in RADAR algorithm development, simulation, and testing using MATLAB or Python (Equivalent experience including audio signal processing, and computer vision, will also be considered)
- Hands-on experience in embedded system processing and code development is a plus
- Understanding of the software development process that includes requirements definition, specifications and automated regression testing
- Experience using the Git version control or similar tools
- Proficiency in C/C++ development for Microcontroller, Windows and Linux platforms
- Excellent software engineering skills, including design and architecture
- Experience in algorithm and signal processing pipeline development
- Experience in Machine Learning topic, including tools like TensorFlow, Pytorch, and Machine Learning models like CNN, is a plus
- Fast learner with can-do attitude, who is open and adoptable to changes, and be able to pick up new technology skills in a short time
- Good interpersonal communication skills and be able to work in team as a team player
- Good analytical and problem solving skill
- Fluent in reading, writing and speaking English and Chinese

