



Senior Principal Systems Architect - IoT/MCU

Job description

System Architecture of Wireless SoC-S for IoT products. Define the product working with Marketing, Customers, IC Design and SW Teams

In your new role you will:

- System Architecture of Wireless SoC-S for IoT products
- Define the product working with Marketing, Customers, IC Design and SW Teams
- Study Architectural trade-offs and make recommendations
- Document Architectural Specifications for the entire product (IP, SoC, SW)
- Drive Power/Performance/Area modeling and optimization studies
- Architect CPU, Memory and Interconnect sub-systems
- Work closely with IC design teams on micro-architecture and implementation choices through the course of the design cycle for optimal power/performance/area/functionality
- Work closely with SW Architects on SW-reuse and SW optimization choices
- Architect integration of Complex/Sensitive IP-s (Wi-Fi, BT, Analog, PMU)
- Power and Clock distribution and synchronization architecture
- Security Architecture (Physical, Logical, SW)
- Debug and Trace Architecture

Profile

You are best equipped for this task if you have:

- Demonstrated experience in leading SoC Architecture from inception to high-volume production
- Min 15 years of experience in Architecture and/or SoC Design roles
- Experience in Wireless SoC Architecture/Design (Cellular, Wi-Fi, BT etc.)
- Deep technical knowledge in at least five of: CPU sub-systems, Memory architectures, Power management and modeling, Security, Graphics, Wireless, Debug and Trace, Performance modeling/benchmarking, Area estimation, Analog, I/O design
- Excellent team-work skills, working with a wide cross-functional team and peers
- Excellent documentation, presentation skills
- Excellent skills in listening to various view-points, incorporating them, articulating the value of solution and defending the architectural choices

At a glance

Location: **San Jose, CA (United States)**
Job ID: **312686**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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Job ID: **312686**
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- Strategic vision to recommend new architectures/avenues from roadmap perspective
- Passion for customer success

Benefits

- **San Jose, CA:** Möglichkeit für Coaching, Mentoring & Netzwerken; Trainingsangebot & strukturierte Entwicklungsplanung; Möglichkeit zur internationalen Entsendung; Verschiedene Karrierepfade: Project Management, Technical Ladder, Management & Individual Contributor; Flexible Arbeitszeit: Vertrauensgleitzeit; Gesundheitsleistungen; Gesundheits- & Vorsorgeprogramme; Arbeitgeberfinanzierte betriebliche Altersvorsorge; Erfolgsbonus; Barrierefreiheit

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.

The Connected Secure Systems (CSS) segment offers comprehensive systems for a secure, networked world with a portfolio built around reliable, trendsetting microcontrollers as well as wireless connectivity and security solutions. Over the past decades, CSS has developed microcontroller, Wi-Fi, Bluetooth and combined connectivity solutions (known as connectivity combos) and hardware-based security technologies. The products are used in a broad range of applications: from consumer electronics, IoT and home appliances to IT equipment, cloud security and networked cars all the way to credit and debit cards, electronic passports and IDs. With its leading technologies in the areas of computing, connectivity and security, CSS makes a decisive contribution to protecting today's and tomorrow's networked systems.

[Click here](#) for more information about working at CSS with interesting employee and management insights and an overview with more **#CSSDreamJobs**.

Cypress Semiconductor Corporation is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex (including pregnancy, childbirth, or related medical conditions), gender identity, national origin, ancestry, citizenship, age, physical or mental disability, legally protected medical condition, family care status, military or veteran status, marital status, domestic partner status, sexual orientation, or any other basis protected by local, state, or federal laws. Applicants with questions about access or requiring a reasonable accommodation for any part of the application or hiring process should contact the Talent Network by phone at (408) 503-2194.

Employment at Infineon is contingent upon proof of your legal right to work in the United States under applicable law, verification of satisfactory references and successful completion of a background check and drug test, and signing all your onboarding documents .

In some instances, if applicable, U.S. export control laws require that Infineon obtain a U.S. government export license prior to releasing technologies to certain persons. This offer is contingent upon Infineon's ability to satisfy these export control laws as related to your employment and anticipated job activities. The decision whether or not to submit and/or pursue an export license to satisfy this contingency, if applicable, shall be at Infineon's sole discretion.

IMPORTANT NOTICE:

Infineon is requiring all new U.S. employees and contractors to be fully vaccinated against COVID-19. Full vaccination is defined as two weeks after both doses of a two-



dose vaccine or two weeks since a single-dose vaccine has been administered. Anyone unable to be vaccinated, either because of a sincerely held religious belief or a medical condition or disability that prevents them from being vaccinated, can request a reasonable accommodation.

Infineon Technologies takes data privacy and identity theft very seriously. As such, we do not request personally-identifiable information (PII) from applicants over the internet or electronically. Please kindly refrain from disclosing your PII electronically during the application process or to unauthorized websites that may purport to be Infineon or any of our affiliates.

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