



## Principal Engineer Electronic Design - (SoC)

### Job description

As a Principal Engineer Electronic Design, you will be Working for Infineon's industry-leading Automotive MCU team in Lynnwood Washington on SoC integration and tape-out of next generation Automotive Solutions; Does this sound exciting? If so, please apply today!

#### In your new role you will:

- Collaborate with co-located **high performance analog and digital design team to integrate IPs** to bring exciting products to market.
- Responsible for **chip-level design infrastructure - Evaluate hardware IPs for integration into new SoCs.**
- Develop and implement methodologies for **I/O, DFT, debug, clocking and power.**
- Responsibility includes feasibility, **micro-architecture, RTL design, front-end implementation**, and post-silicon system bring-up.
- Implementation and verification of design in RTL and taking the design through all the **FE flows - Ownership of the Integration Spec for the design project**, integration, and optimization of any memories and hard macros.
- Provide technical leadership through personal example, mentorship, and strong teamwork.
- Participate in continuous improvement and innovation of **CAD and physical design methodologies.**
- Automating and advancing flows using proficiency in Perl/Tcl scripting.
- Be in control of your career - We put no limits on how fast you can grow.
- Be part of a dynamic, interactive team environment.

### Profile

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

- 8+ years of **SoC Design (RTL to GDSII)** experience across multiple technology nodes.
- This position requires thorough knowledge of the **ASIC design flow.**
- Top-level integration of connectivity, **system bus, peripherals, and CPU IP.**
- Strong experience in complex ASIC design and IP integration, with a focus on high performance, low area, and low power.
- Proficient in design methodologies and EDA tools for **DFT, power, clocking, and debugging.**

### At a glance

Location:

Job ID: **361333**

Start date: **Oct 24, 2022**

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. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **361333**  
[www.infineon.com/jobs](http://www.infineon.com/jobs)



- Hands-on experience in many aspects of physical front-end design including data preparation, **RTL/UPF integration, LINT, CDC, synthesis and STA.**
- Expert knowledge of UPF flow for defining power intent of chips with multiple power domains.
- Understanding of multi-clock designs, power management, reset, and power sequencing.
- Proficiency in one or more of the following highly desirable: **AXI/AHB bus fabric, ARM-based processor sub-systems, I2C, SPI, UART, LIN, CAN.**
- Solid understanding of scripting languages such as **Tcl/Python/Perl.**
- Collaborative mindset to work with local team members, as well as international team members and IP providers.
- Strong problem solving and debug skills across various levels of design hierarchies.
- Strong verbal and written presentation/communication skills.
- B.S. or M.S. in EE/ECE/CE/CS.

### **Automotive Microcontroller: We make cars clean, safe and smart**

As a leading automotive microcontroller vendor, the Infineon business line **Automotive Microcontroller** (ATV MC) offers the industry's most comprehensive vehicle microcontroller portfolio and complements it with software. We serve automotive key applications, such as powertrain, advanced driver assist, chassis, body, instrument cluster and infotainment. We also address high-performance dependable computing, real-time domain and zone control, smart sensing and affordable artificial intelligence (AI) applications enabling the next stages of automated driving as well as higher levels of car connectivity, digitalization and security.

Being at the core of this transformation, ATV MC contributes to shape the future of mobility enabling clean, safe and smart cars. So join us to create a better future together.

**#AutomotiveMicrocontroller**

## 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.

*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 on-boarding 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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