

Driving decarbonization and digitalization. Together.



Lead Mixed Signal Design Verification Engineer

Job description

As Lead Verification Engineer, you will be responsible for leading the verification of ICs focused on the Aerospace, Defense, and High Reliability market. The HiRel verification team is a newly created team within the larger HiRel R&D organization. In addition to leading verification for rad hard ICs, this position provides a unique opportunity to help shape the IC verification strategy for the organization. Your work driving simulation and model development methodologies, identifying and developing critic verification tools /software, and analyzing IC behaviors in critical applications will help maximize our business opportunities across all designs at our strategic customer base. Your experience in design verification and/or analog IC design and your ability to support a collaborative, innovative, resilient culture will be instrumental in your success.

In your new role you will:

- Drive the verification of mixed signal ICs using best practices & methodologies to achieve first pass silicon success
- Create and verify block level models (system Verilog, VAMS, etc.) for utilization in top level mixed mode simulations
- Develop application specific test benches with automated checkers to assess overall IC functionality and robustness
- Collaborate with application, analog design and digital design leads to understand and verify system level and IC level functions and specifications
- Partner with design team and provide initial analysis of errata found during the verification process
- Provide specification, design review and test requirements documentation to guide test, validation, and product engineering to meet project targets
- Create thorough verification plans and schedules, communicate resourcing needs, and align with program management to enable on time product delivery.
- Mentor and develop early career verification engineers to achieve individual and team targets.
- Foster a speak-up culture of collaboration, innovation, and resilience within the verification team.

Profile

You are best equipped for this task if you have:

- Bachelors of Science in Electrical Engineering or equivalent
- 7+ years of experience in analog design or mixed signal design verification
- Some experience in UVM based design verification

At a glance

Location:	Andover, MA (United States), Dallas, TX (United States)
Job ID:	HRC0556638
Start date:	as soon as possible
Entry level:	5+ years
Type:	Full time
Contract:	Permanent

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Job ID: **HRC0556638**

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- Experience in modeling analog mixed-signal blocks such as bandgap ,oscillators, ADC, DAC, LDOs, gate drivers, and others
- Knowledge of system verilog, VAMS or real number modeling
- Experience writing checkers and assertions for top level parametric assessment and functional coverage
- Expert level knowledge using common EDA tools such as Cadence Virtuoso, Maestro, vManager, and others
- Extensive experience in creating verification plans, scenarios and test benches for mixed signal power systems
- Ability to drive a break the part mentality
- Ability to persevere until all unexpected observations are driven to root cause and closure
- Outstanding communication and leadership skills
- Must be a team player and self-starter

Infineon Power & Sensor Systems (PSS) semiconductors play a vital role in enabling intelligent power management, smart sensitivity as well as fast and reliable data processing in an increasingly digitalized world. IR HiRel, part of Infineon PSS, is a leader in high-reliability, rad hard power management and RF solutions for space and other extreme environments.

Our leading-edge power devices make chargers, adapters, power sources and lighting systems smarter, smaller, lighter and more energy-efficient. Our trusted sensors increase the context sensitivity of “things” and systems such as HMI, and our RF chips power fast and reliable data communication.

– We drive leading-edge power management, sensing and data transfer capabilities –

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

#LI-TG1

Benefits

- **Andover, MA:** Medical, Dental & Vision Plans; Flexible Reimbursement Accounts (FSAs); Industry leading 401k Employer Contribution/Match; Company Performance Bonus; Holiday Pay & Paid Time Off (PTO); Flexible Working Conditions, Part-time Options; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Wide range of Training Offers & Career Development Planning; Coaching, Mentoring, Networking Possibilities; International assignments; Basic Life & Dependent Life Insurance; Paid Sick Leave, Accidental Death & Disability Insurance (AD&D) ; Short-term & Long-term Disability ; Employee Assistance Program (EAP) ; Health Promotion Programs ; Reduced Price for Public Transportation
- **Dallas, TX:** Medical, Dental & Vision Plans; Flexible Reimbursement Accounts (FSAs); Industry leading 401k Employer Contribution/Match; Company Performance Bonus; Holiday Pay & Paid Time Off (PTO); Flexible Working Conditions, Part-time Options; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Wide range of Training Offers & Career Development Planning; Coaching, Mentoring, Networking Possibilities; International assignments; Basic Life & Dependent Life Insurance; Paid Sick Leave, Accidental Death & Disability Insurance (AD&D) ; Short-term & Long-term Disability ; Employee Assistance Program (EAP) ; Health Promotion Programs ; Reduced Price for Public Transportation

Why Us

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.



We are on a journey to create the best Infineon for everyone.

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant´s experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

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IR HiRel Products Inc., 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.

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.

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.

