



Sr. Level Application Engineer, Product Definition - Power Stage

Job description

You have 7+ years of power related experience with at least 3 years in product definition. You enjoy working with internal development teams as well as supporting external customers while collaborating with all levels and functions within a large, successful, global, state-of-the-art power organization.. As a Product definition engineer, you will define, develop, and support the design-in activities for Power Stage IC's. Your support with promotional material and collaterals, G2M activities and advanced technical training to the regional FAEs will be key towards enhancing the value of Customer's products.

The DCDC Enterprise Power (EP) management business line defines, designs, develops, manufactures and markets **PWM controllers, power stages (PS) and integrated Point of load (POL) products** for the Server, AI, Communications, Consumer and industrial markets. We are looking for an engaged **Product definition engineer for PS**. The ideal candidate has simulation, product definition, and hands-on development experience in the area of **high-frequency, low voltage buck systems (3.3V to 25V)**. Deep knowledge of Power Stage and **buck regulator control theory (COT, VM, CM), MOSFET device characteristics**, systems with a focus on defining **buck topology Power Stage** for customers are a must have.

You will create datasheets, application notes and all related collaterals that will **enable product design-in**. Candidate will work with internal development teams including design, project management, and marketing, to **define and develop new products**, and to **support customer design-in activity** of the **Power Stage (PS) products**.

In your new role you will:

- Work with Server, Consumer, Communication, and Industrial customers and respective marketing teams to define and support the development of **Power Stage products**. In particular work with customers internal to Infineon and external to Infineon to create strong and clear definitions for product operation and product pin functionally
- Perform **system level simulation** for new PS concepts and designs
- Work with internal development teams to **define the PS architecture** and to verify application target requirements
- Develop block level diagrams for architecture and feature requirement documents that clearly **define the PS operation, PS functionality and PS pin operation/impedances**

At a glance

Location: **Warwick, RI (United States)**
Job ID: **355241**
Start date: **as soon as possible**
Entry level: **3-5 years**
Type: **Full time**
Contract: **Permanent**

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Job ID: **355241**
www.infineon.com/jobs



- **Specify the MOSFET's, the external components (L's and C's)** and packaging technology requirements for PS
- Gain customer and application knowledge and **understand device usage** in end-application through regular customer visits
- **Benchmark competitor's products** and generation of **promotional material and collaterals** (test reports, application notes, white papers) for product promotion
- Provide **second level support for complex technical inquiries** from customers. Drive problem solving by simulations, system evaluation and **bench testing**
- **Create go-to-market evaluation boards**, datasheets, application notes and design tools for new products and **support customer project design-in activities**
- **Prototype Power stage platforms**, assist in verification of the silicon. If needed job may include creation of demo boards and creating customer design-in collateral (DS, APP notes, FAE & customer product and VR training) and initial design-in responsibility for the new power stages
- **Provide advanced technical training to regional FAEs** on how to use Infineon components to enhance value of end-Customer's products
- **Travel may be required up to 5%**

Profile

You are a strong team player with the ability to effectively multi-task, manage priorities and solve technical problems independently. You have strong communication and collaboration skills within a large, global matrix organization.

You are best equipped for this task if you have:

- **BSEE or MSEE** with at least **7 years of power related experience** and at least **3 years in product definition**
- Knowledgeable in **power conversion topologies, power device, magnetics and control loop design**
- Experience in selection of **MOSFET's, Gate Drivers, Capacitors, Inductors** and use of these components in **power supply design and applications**
- **Lab skills** in using digital oscilloscopes, function generators, and network analyzers for the test and debug of switching power supplies
- Experience with **Matlab/Simulink, SIMetrix**, or similar engineering tools is required
- Able to **collaborate with all functions in the organization** from Marketing, FAE's and sales, to IC design and product development AE's to ensure successful product development
- **Extremely responsive**, ready to jump on the most difficult design and/or customer issues instantly
- Oral & written English language proficiency a must
- **Well-organized, self-driven**, good communication and presentation skills

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.

Our leading-edge power devices make chargers, adapters, power tools 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.

Benefits



- **Warwick, RI:** 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

Part of your life. Part of tomorrow.

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

Infineon Technologies Americas Corp. 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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