



Hardware/ Firmware Application Engineer

Job description

We are looking for a Power Electronics engineer who has experience in BLDC motor drive designs, engineering design and/or applications engineering and customer support. Apply Now!!

In your new role you will:

- Generate customer product collateral (**application notes, white paper, demo boards, simulation model and leading product training to FAEs, CAEs**)
- Engage in customer interaction to support and achieve **controllers, drivers and power stage design-in**
- Engage in customer interaction to solve technical issues that may arise in the design-in and/or production of customer products using controller and power stages. May include managing the **Failure Analysis of customer returned parts**
- Perform detailed circuit analysis with **simulation and bench validation**
- Generate reference schematics, **BOM, and test reports for customers**
- Write detailed system **validation plan** and perform the tests for motor drive boards
- Write application notes for system **power solutions** and technical papers
- Develop simulation models and design assistance tools such as **Excel spreadsheet or Mathcad tools**
- Develop application literature such as **application notes**, technical articles and other promotion material
- Prepare training material, **webinars for global AE and sales team**

Profile

You are best equipped for this task if you have:

- **BSEE or MSEE preferred** with hands-on experience in BLDC motor drive designs including extensive lab skills
- At least **5 years experience** in engineering design and/or applications engineering and customer support
- A **background in motor drive design** preferably in the power tool and/or gardening tool or similar industry
- Deep understanding of power electronic converter topologies, components (**MOSFETs, gate drivers**) and hands-on experience in converter design
- Deep knowledge of **motor types, their architecture, and principles of operations**, understanding the best fit for the application

At a glance

Location: **El Segundo, CA (United States)**
Job ID: **349232**
Start date: **as soon as possible**
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:

Job ID: **349232**
www.infineon.com/jobs



- **Hardware and software** experience in motor control including commutation methods such as trapezoidal/six-step and field oriented control methods
- Experience in system level modelling and simulation for various power switches or power circuits using tools such as **MATLAB, Simulink, PLEX, Symmetrix** or similar
- Experience with PCB design tools (**Altium or Allegro**)
- Experience with **simulation tools**
- Are self-learning, self-disciplined, and a **good team player**
- Are good at developing relationships with **internal and external** engineering community
Are extremely responsive, ready to jump on the most **difficult design and/or customer issues instantly**
- Good communication skills in both **verbal and written English**

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

- **El Segundo, CA:** 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 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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