



Senior Engineer, Product Definition-Motor Control

Job description

Infineon's 50,000 global employees share a common mission: make life easier, safer and greener for generations to come. If you want to make a difference and are passionate about applying your motor control expertise at large scale, join the industry leader in power semiconductors! We are looking for an experienced motor control expert for our Industrial Power Control (IPC) division.

Working together with a highly skilled cross functional team, you will be using your industry experience and creativity to define unique functions for highly integrated motor control ICs. Combining analytical engineering with hands-on laboratory work you will be pushing the performance of motor control algorithms used in the home- and commercial appliance industry.

In your new role you will:

- Be a creative thought leader and contribute to product roadmap planning
- Develop novel control algorithms for permanent magnet motor applications
- Apply control theory and system simulation to design optimized control system
- Transition theory and simulation into real-time control firmware to create proof-of-concepts and prototypes
- Author engineering requirements and specifications and communicate those to the relevant product development teams
- Work closely with product management and application engineering to help define and prioritize new product features
- Document work through feature definitions, user guides and white papers
- Define and execute fit-for-use test and help execute an automated system test strategy
- Communicate and knowledge sharing within a cross functional team

Profile

You are best equipped for this task if you have:

- Enthusiastic about driving innovation
- Expert on motor control theory, design, modeling and implementation
- Expert on sensored- and sensorless field-oriented vector control of permanent magnet motors
- Expert on Matlab/Simulink system simulation of electric motors, power electronics and plants
- Broad understanding of power converter topologies, design and application

At a glance

Location: **El Segundo, CA (United States)**
Job ID: **331512**
Start date: **as soon as possible**
Entry level: **3-5 years**
Type: **Full time**
Contract: **Permanent**

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Job ID: **331512**
www.infineon.com/jobs



- Hands-on experience with laboratory work including debugging and test
- Strong team player with the ability to effectively multi-task, manage priorities and solve technical problems independently
- Confident with embedded firmware development
- Hands-on experience with embedded HW platforms
- Experienced with firmware development procedures
- Version control tools such as GIT
- Bug tracking tools such as JIRA
- Requirement capturing tools such as JAMA
- M.Sc in Engineering with emphasis on motor control and minimum of 6-10 years of relevant industry experience
- Part-time local telecommuting permitted.

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.

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.

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

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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