Senior Application Engineer, Battery Powered Drives

Job description

In this position, you will work in the definition, testing and support of MOSFET gate drivers (discrete and integrated) in low and medium voltage drives applications. You will work with engineers from multiple disciplines in the specification, concept and development of products optimized for battery powered drives applications. The candidate will analyze from a system perspective, new power MOSFET technologies and the interaction with the rest of components in the application with the goal to make motor drives more efficient, smarter and safer.

In your new role you will:

- Define MOSFET gate drivers including electrical, thermal, mechanical and packaging
- Generate reference designs and evaluation boards for internal use and customer evaluation
- Analyze MOSFET and MOSFET gate drivers in detail
- Work with ARM Cortex-M microcontrollers and program firmware, e.g. motor control
- Work with and analyze batteries and their usage in drives applications and explore the influence on power components design
- Lead technical discussions inside and outside Infineon and guide technical decisions
- Simulate drives systems and generate computer circuit models to predict circuit behavior using SIMetrix and MATLAB
- Conduct performance studies both electrical and thermal
- Perform competitive benchmarking at device and system levels

Profile

You are best equipped for this task if you have:

- BS, MS or Ph.D. in Electrical Engineering or similar field
- 3+ years of experience in power electronics or drives industry
- Deep understanding of gate drivers
- An in-depth knowledge of power electronics, inverters and motor control
- Capability to analyze MOSFET behavior in detail
- Good knowledge of analog and digital circuit design and control concepts as well as simulations
- Strong understanding of microcontrollers (ARM Cortex-M) and ability to program firmware (C/C++)

Infineon **Power Management & Multimarket (PMM)** 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.

At a glance

Location:	**El Segundo, CA**
Job ID:	**38270**
Start date:	**Oct 28, 2019**
Entry level:	**3-5 years**
Type:	**Full time**
Contract:	**Permanent**

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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** –