

Driving decarbonization and digitalization. Together.



Product Application Engineer for HV GaN

Job description

Infineon Korea is looking forward to working with an experienced talent, specialized in High Voltage GaN product at Seoul office.

In your new role you will:

- Contribute to major product cross-functional teams for both product development and customer supporting
- Prototype and produce requirements definitions for new application and solutions
- Produce content in support of new GaN and controller/ gate drivers products, including:
 - New product definition/ validation
 - Hardware & System-level designs/ reviews including schematic, layout and component selection for demo boards/ EVBs/ reference designs/customer requests
 - Deep analysis on products and find the value propositions
 - Technical documentation and promoting materials such as datasheets, technical reference manuals, application notes and knowledge base articles
 - Technical training for external customers and Infineon Sales, Marketing and Applications
- Enable customer design-in of products and solutions through architectural collaboration, technical support, training and failure analysis

Profile

You are best equipped for this task if you have:

- Bachelor's degree above in Electrical Engineering or an equivalent field
- (Preferred) 5+ years of experience on Charger/ Adapters, SMPS, AC/DC, Solar, ESS, inverter, Motor Drivers
- Extensive knowledge of AC/DC and high voltage DC/DC system level designs with experience in testing, tuning, debugging and device selection
- Strong understanding of one of the following category:
 - Switching power supplies (SMPS) and power supply topologies like PFC, LLC, hybrid flyback, active-clamp flyback, QR flyback, etc.

At a glance

Location: **Seoul (Korea)**
Job ID: **HRC0764050**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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Job ID: **HRC0764050**
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- Motor driver, Inverters
- Solar, Energy Storage, and Industrial Power Applications
- Problem-solving capability, being happy to help on customer's technical requirements
- Familiarity with software tools such as Altium Designers, Mathcad/Matlab, PLECS, Simplis/Simatrix, Labview
- Familiarity with digital control with FPGA or MCU/ DSP will be a plus.
- Understanding the switching power component - MOSFET, IGBT etc. GaN and SiC MOSFET experience is a plus.
- Teamwork, self-discipline/ motivated/ innovative and aggressive
- Good verbal and written communication skills in English

Benefits

- **Seoul:** Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Medical Coverage; Health promotion programs; On-site canteen; Wage payment in case of sick leave; Corporate pension benefits; Performance bonus

Why Us

Driving decarbonization and digitalization. Together.

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.

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.

– Power & Sensor Systems (PSS) drives leading-edge power management, sensing, and data transfer capabilities –

The PSS division powers decarbonization and digitalization with a wide range of energy-efficient and digital solutions. PSS semiconductors help avoid carbon emissions, use resources sustainably, manage power effectively and intelligently, give 'things' smart senses, and process data quickly and reliably. The portfolio includes power, connectivity, RF, and sensor system technologies to develop smaller, lighter, smarter, and more efficient solutions for consumer devices, smart home/building applications, robotics, computing and data centers, charging devices, power tools, and much more.

The next generation of silicon and wide-bandgap (SiC and GaN) solutions provides unparalleled performance and reliability for 5G, big data, and renewable energy applications. These materials are paving the way for further energy and carbon savings. Highly precise XENSIV sensor solutions are enabling IoT devices to react intuitively to their surroundings for seamless user interactions while audio amplifiers bring exceptional sound experiences to smart speakers and other audio use cases.



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