

Driving decarbonization and digitalization. Together.



Internship - Application Engineering (Industrial)

Job description

We are offering an internship dealing with the depth of designing high power motor control application especially for electric 2/3 wheelers. In the internship, you will design Matlab Simulation/Hardware/programming firmware for the motor control which will be used for Infineon's automotive power management ICs, sensors, MCU and Power devices. You will gain insights into state-of-the-art for this application and their requirements for hardware/firmware.

In your new role you will:

- Understand **motor control for 2/3 Wheeler market**
- **Develop Matlab Simulation/firmware** for power application to execute on microcontrollers (MCU)
- Contribute to **artificial intelligence demonstration** with Infineon automotive MCU hardware accelerator
- **Build up system prototypes, investigate and help provide solution** for problems within the system
- **Hand-on measurements and reports**

Internship learning outcomes:

- Understand **high power motor control requirements** for electric 2/3 wheelers
- **Opportunity to meet people from all around the world** while developing their skills
- Gain **familiarity with best practices** in the realms of engineering
- Exposure to **working at Sales and Marketing Environment**
- Learn to **take ownership** and **drive development** within one technical stack.

Profile

You are best equipped for this task if you are/have:

- Currently studying Computer Science, Electrical Engineering or a related subject
- Have background knowledge in the field of Power Electronics
- Experience **C experience with 32 bit microcontroller** would be a bonus
- Experience **with Assembly/C/C++ with artificial intelligence** is a plus
- Knowledge about **Altium, Matlab/Simulink** is a plus
- A team player with **analytical skills** and **problem-solving skills**

At a glance

Location: **Singapore (Singapore)**
Job ID: **HRC0895392**
Start date: **Mar 03, 2025**
Entry level: **0-1 year**
Type: **Full time**
Contract: **Temporary**

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Job ID: **HRC0895392**
www.infineon.com/jobs



- Enjoy working in an international team and are eager to learn new things
- Speak Basic English communication, and can read and understand English documents

Benefits

- **Singapore:** Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Staggered working hours for normal shift employees ; Home office options, certain conditions apply.; Part-time work possible (applicable for normal shift employees); On-site day-care center; Medical coverage; On-site social counselling and works doctor; Health promotion programs; On-site canteen; Private insurance offers; Paid sick leave according to law, personal accident & work injury insurance, long term illness leave; Retirement benefits, re-employment opportunities, employment assistance payment; Performance bonus; Provision of long haul transport for shift and shuttle services for office to defray transport costs

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.

