

Driving decarbonization and digitalization. Together.



Internship - Automation in Mixed Signal Verification

Job description

The objective of the project is to contribute in increasing the efficiency of the team by developing scripts for automation. The student will work with the Mixed signal verification team and develop, in various languages, programs that help automate the development of the test-cases. The test-cases will be used in various technologies. In order to support efficient verification tasks, in both digital and mixed signal, the project will involve development of automation with a strong focus in innovative thinking.

In your new role you will:

Under the guidance of a mentor,

- Need to understand the **concepts of IC verification and mixed signal IP verification**
- Need to familiarize with **various EDA tools and flows**
- Contribute to **test case development and automation**
- **Develop scripts** to enable verification efficiency

Internship learning outcomes:

- Technical learning outcomes:
 - Demonstrate the ability to **understand project requirements**
 - Get acquainted with **verification methods and tools**
 - Understand the **basic concept of chip design and verification**
 - Understand the concept of **spice simulations**
 - Expand knowledge of **scripting and automation** (in Perl, tcl, Python, Makefile, etc...)
- Non-technical:
 - Understanding of **semiconductor R&D processes**
 - Exposure to **industry practices and processes**
 - Exposure to **team work and collaboration** in a semiconductor R&D environment

At a glance

Location: **Singapore (Singapore)**
Job ID: **HRC0896540**
Start date: **Oct 01, 2024**
Entry level: **0-1 year**
Type: **Full time**
Contract: **Temporary**

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Job ID: **HRC0896540**
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Profile



You are best equipped for this task if you have:

- On track to attain Bachelor in Electrical & Electronic or Computer Sciences, diploma students are also welcome to apply
- Familiar with **computer programming language** such as C# or Python, Perl, tcl
- You must be **methodic & organized**
- **Team player**, curious and willing to learn
- Language: **English** required for communication
- **Understanding of analogue circuits** is an advantage

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.

