

# Driving decarbonization and digitalization. Together.



## Staff Engineer

### Job description

Hypervisor and Virtualization Engineer

#### In your new role you will:

- Responsible for designing the overall architecture and functionality of hypervisor, including architectural decision, resource management, Virtual Machine (VM) Life cycle management, security features and integration with hardware and software components.
- The technical lead should analyze and design efficient algorithms and optimize resource utilization to ensure optimal performance for hosted VMs and interaction between hypervisor and underlying hardware.
- Responsible for Requirements analysis, Unit design, Implementation, Integration, system debug, Verification, and delivery support.
- The technical lead should design and implement robust security features to ensure isolation between VMs, prevent VM escapes, and protect against unauthorized access.
- Ensure the quality and standard compliance such as ISO26262, ISO21434 etc.
- Identify and mitigate all the technical risk in area of responsibilities within the project scope.
- Contribution to the design and test methodology, automation, reuse of tests, quality improvements and engagement with tool partner
- Shall provide technical leadership, guidance, and mentorship to the team. The technical lead should communicate effectively, facilitate knowledge sharing, resolve technical challenges, and ensure alignment with project goals and timelines.
- Should actively research and evaluate emerging technologies, propose innovative solutions, and make informed design decisions to keep the hypervisor at the forefront of virtualization technology.

### Profile

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

- Expert in low level programming such as Device Driver development and BSP porting using C/C++.
- In-depth knowledge of operating systems concepts and internals, such as process scheduling, memory management, file system etc.

### At a glance

Location:

Job ID: **HRC0475037**

Start date: **as soon as possible**

Entry level: **3-5 years**

Type: **Full time**

Contract: **Permanent**

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### Contact

[Chowta.external@infineon.com](mailto:Chowta.external@infineon.com)



- Good understanding of virtualization technologies including hardware virtualization. Familiarity with the hypervisor architectures like Type 1 (bare-metal) and Type 2 (hosted) hypervisors e.g., Xen on Arm, Green-hills microvisor, Open synergy and QNX etc.
- Working knowledge of device tree configuration, Linux device drivers, computer security principles, such as isolation, access control, secure bootstrapping etc.
- Understanding of network protocols and virtual networking technologies, network virtualization, VLANs, software-defined networking (SDN) etc., is nice to have.
- Expert knowledge of computer architecture, embedded CPU (ARM/RISC-V), virtual memory management, CPU virtualization features and interrupt handling management.
- Working knowledge of Citrix, Microsoft, VMware or any other open-source hypervisor is good to have.
- Hands-on experience on embedded compilers such as GNU, Tasking etc. and debuggers such as PLS, Lauterbach T32 etc.
- Good team player in a multi-site/multi-cultural work environment  
Demonstrated strength of strong Communication skills, Innovation mindset, stakeholder management, risk management, quality, and process compliance, mentoring and coaching of peers etc

## Benefits

- **Bangalore:** Coaching, mentoring & networking possibilities ; Wide range of training offers & planning of career development; Regional and local talent programs; International assignments; Career paths: Management career, Project management career, Technical ladder career, Individual contributor career, Professional career; Flexible work timing, Part time work, Work from home; Home office; Health & wellness reimbursement, Employee motivation forum, Spoothi – Diversity club, Master health check up, Health promotion campaigns; Crèche facility; Annual success bonus; Medclaim (dependents & top up), Personal accident, Term life; National Pension Scheme; Health promotion programs; Statutory benefits; Access for wheelchairs; On-site canteen; Paid sick leave, long term illness leave; On site Yoga classes, Sports club

## 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.

