



## Principal Systems Engineer

### Job description

The Connected Secure Systems (CSS) segment offers comprehensive systems for a secure, networked world with a portfolio built around reliable, trendsetting microcontrollers as well as wireless connectivity and security solutions. Over the past decades, CSS has developed microcontroller, Wi-Fi, Bluetooth and combined connectivity solutions (known as connectivity combos) and hardware-based security technologies. The products are used in a broad range of applications: from consumer electronics, IoT and home appliances to IT equipment, cloud security and networked cars all the way to credit and debit cards, electronic passports and IDs. With its leading technologies in the areas of computing, connectivity and security, CSS makes a decisive contribution to protecting today's and tomorrow's networked systems.

As a member in WLAN MAC systems team you will play a key role spanning from development, implementation of protocols at MAC layer on 802.11 standards including 802.11be, 802.11ax, 802.11ac and legacy standards.

Your key responsibilities will be

- Design, analysis, development & maintenance of WLAN L-MAC FW in custom assembly.
- Design/Enhance system power optimization techniques.
- Pre-Si design verification of MAC layer using scripting languages like TCL/python and validate in emulation environment.
- Working with various Cross functional teams like PHY systems, Firmware development, Hardware design teams to define, document the interfaces to L-MAC layer and enable verification
- Hands on silicon bring-up and meet MAC KPI's
- Debugging and solving cross layer customer issues – working across boundaries of WLAN MAC, PHY, CHIP – while staying focused on the underlying problem

### Profile

- Sound basics in wireless communication systems and embedded system design / programming.
- Hands on experience of programming in Assembly language, C
- Good debugging skills in C, using gdb, analysing crashes using stack trace are essential
- Familiarity with IEEE 802.11 standards is desirable
- Knowledge of Tcl/Python would be plus
- Ability to work with large, global, cross functional team

### At a glance

Location: **Bangalore (India)**  
Job ID: **336630**  
Start date: **as soon as possible**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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### Contact

[Jyoti.Vimal@infineon.com](mailto:Jyoti.Vimal@infineon.com)



- Good communication and presentation skills.
- Identifying issues and proposing design and methodology improvements while driving compliance of existing design flow
- Mentoring and training other team members as necessary
- Creating collateral for internal and external use as necessary

## 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, Spoorthi – 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

**Part of your life. Part of tomorrow.**

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

