# Principal Firmware Engineer in Bluetooth-Wifi SoC

## Job description

Connected Secure Systems Division is seeking a principal level embedded FW engineer to work on FW features development and debugging. Focus areas include closely working with modem/RF design/DVT teams in RF device driver development, FW and RF/modem/Mac interaction, WLAN-BT co-existence.

**In your new role you will:**

- Work closely with modem/RF design/DVT teams in RF device driver development, FW and RF/modem/Mac interaction.
- Working with ASIC team in such areas as I/O peripheral integration, power optimization, audio integration
- Working on performance enhancement in BT/WLAN/Zigbee/LTE coexisting systems
- Very strong coding skills in **C, C++ required**. Assembly (preferably ARM) highly desirable. Scripting languages (Perl, Shell, Python) is a plus.
- Expertise in firmware/software in **embedded systems** such as multithreaded RTOS, developing FW for systems with limited resource, FW patching for SoC solutions required.
- Experience with device driver, FW control of Mac/Modem/RF HW is a plus.
- Experience with wireless standards highly desirable, such as **Bluetooth, Wifi,** 802.15.4/Zigbee.
- Experience with makefile, Linux/Unix environment a plus.
- Experience with logic analyzer, BT/wifi protocol analyzer/sniffer required, oscilloscope, signal analyzer/generator tools a plus.
- Some understanding of wireless HW/systems is a plus, such as DSP, RF, Modem, audio processing.

## Profile

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

- 12+ years of the Software/Firmware development in embedded systems, preferably in wireless communication, is highly desirable.
- Maser degree in CS/CE/EE highly desirable
- Strongly desirable is the ability to **own up and lead the FW aspect of system features**: including analyzing the FW requirement, evaluating impact to /correlation with FW, design and coding of the features, unit testing and guide on SVT testing.
- Must be self motivated, takes initiative in problem analysis, and debugging

## At a glance

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| Location: | **San Jose, CA (United States)** |
| Job ID: | **57308** |
| Start date: | **immediately** |
| Entry level: | **5+ years** |
| Type: | **Full time** |
| Contract: | **Permanent** |

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- Must have excellent communication skills.