

## **Job Description: Sr. Embedded Sys. Architect & FW Developer**

### **Job Purpose**

The candidate will work within the Edge Development team with two specific focuses: Design-to-cost and design-to-security development, evolving current IoT product architectures.

### **Key Responsibilities**

- Requirements specification and development of new embedded devices in collaboration with the Edge Development team and Product Management team, both on HW and SW sides
- Study of systems architecture with focus on product quality and product cost balance following latest technology trends
- Scouting of innovative technologies and techniques for security management of telematic data and hardening of mobile devices

### **Specialized Knowledge and Required Skills**

- ASIC development based on ARM® and/or RISC-V cores
- Embedded C, systemC, VHDL, UML & sysML
- Modelling & Simulation toolchain: Simulink®, P-SPICE, Altera Quartus, Modelsim, Synopsys Design Compiler
- Design of threat models and threat control systems for project risks mitigation
- Design of SW and HW security requirements for IoT devices (i.e. FIPS 140-2)
- Design and environment setup close to MISRA-C rules

### **Preferred Skills**

- >7 years of experience
- Knowledge in the following fields:
  - AT commands related to 4G LTE modems
  - Knowledge of the main GNSS technologies and related techniques close to ADAS systems (i.e. Lidar)
  - Inertial measurement unit: accelerometers, gyroscopes and compasses
  - Bluetooth (BLE and Dual Mode) /WiFi
  - Automotive CAN protocols
- GIT/SVN versioning knowledge
- Electronic Engineering (microsystems)
- Proficient knowledge of English (both speaking and writing)
- Team working capability