

## **Job Description: Embedded Security Engineer & FW Developer**

### **Job Purpose**

In collaboration with the device chief engineer, the candidate will work as part of the Edge Development team with a specific focus: Design-to-security development. The resource will implement specific techniques for the cybersecurity of IoT platforms (embedded) and develop specific FW components.

### **Key Responsibilities**

- Study of system architecture with focus on security systems such as HSM
- Scouting of innovative technologies and techniques for security management of telematic data and hardening of mobile devices
- Requirements specification and development of new embedded devices in collaboration with the Edge Development team, both HW and SW.

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

- Development of threat models and design of threat control systems for mitigation of risks
- Development of SW and HW security requirements for IoT devices (FIPS 140-2)
- Development of blockchain algorithms for securing communications between IoT devices and Cloud platforms
- Embedded C, VHDL (nice to have)
- Design and environment setup close to MISRA-C rules

### **Preferred Skills**

- >5 years of experience
- GIT/SVN versioning knowledge
- Nice to have knowledge:
  - 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
- Electronic Engineering (microsystems)
- Proficient knowledge of English
- Excellent team working capability.