



Document title:

# Job Description

## Embedded Software Engineer

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## Embedded Software Engineer

Date: 1/2/2021

<b>Job role</b>	Software Engineer
<b>Department</b>	Software & Provisioning department from System Engineering
<b>Working place</b>	Meyreuil - France

### Mission

- Take over the maintenance of current firmware (secure OS on AVR/ARM/RISC V platforms)
- Technical study of the next-generation of firmware
- Active interactions with the hardware engineers and the business lines to collect and elaborate requirements
- Coordinate with the project manager and his manager in estimation and project planning
- Help investigate issues encountered on silicon

### Main responsibilities

- Development of smartcard embedded firmware
- Drive implementation along with unit testing
- Shall be responsible for developing re-usable libraries for productivity improvements
- Debug and solve problems during development and post release
- Shall assist the manager in effort estimation and technical risk identification
- Contribute to the technical documentation writing of the product (in English)
- Train and support FAEs
- Shall be responsible for failure analysis and bug reporting.
- Shall be able to run the non-regression validation campaigns to evaluate the new firmware release.
- Support the project manager to meet the project goals including managing technical risks
- Strong focus on automation of processes using latest tools
- Work with off-shore site teams to lead the validation technical problems
- Identify and drive continuous improvement and innovation topics
- Be an active member of the cross functional team to meet the project objectives

### Main interfaces

#### Internally:

- Firmware development team
- HW Design team
- Project managers and Business Lines
- Customer support

#### Externally:

- Hardware / Software solution provider
- Validation solution provider
- Final Customer

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## Requirements

<b>Educational background</b>	<i>Graduated Engineer (Embedded software)</i>
<b>Required experience</b>	<i>Between 1 and 5-year experience in developing firmware for smartcard</i>
<b>Required skills</b>	<i>Embedded software programming in C and assembler (ARM / RISC V) Able to translate requirements to design and provide right estimations for development Drive implementation along with unit testing Strong knowledge on various standards, ISO 7816, ISO14443 Strong Symmetric and Asymmetric cryptography knowhow Knowhow of PKI and public key certificates Knowhow of various security threats and implementing counter measures Development on Windows / Linux (C, C++, Python) is desirable. Familiarity with static code analysis Familiarity with version control system (e.g. SVN) English (written &amp; spoken)</i>
<b>Other</b>	<i>A team player, self-learner with good communication and interpersonal skills– Autonomous</i>

To apply, please send your CV and motivation letter exclusively by email to :  
[ipecharroman@wisekey.com](mailto:ipecharroman@wisekey.com)