Location: Sophia-Antipolis, France **Ref: SSW_LLSL_ENG**

Employment type: Experienced Professional

Contract type: Permanent position

EMBEDDED LOW LEVEL SOFTWARE TECHNICAL LEADER

The Automotive industry is living through a revolution. Electrification, autonomous driving, diverse mobility, connectivity are trends that are drastically changing the industry's rules. Among all decisive topics revolutionizing cars in the next future, Silicon Mobility is committed to support the rapid advent of electric and hybrid cars.

Silicon Mobility, an Intel company, is a technology leader for cleaner, safer, and smarter mobility. The company designs, develops and sells flexible, real-time, safe, and open semiconductor solutions named FPCU (Field Programmable Control Unit) for the automotive industry used to increase energy efficiency and reduce pollutant emissions while keeping passengers safe.

The Company is opening an "**Embedded Low Level Software Technical Leader**" position in its main Research and Development center ideally located in the Sophia-Antipolis Technology Park on the French Riviera.

You are a brilliant and passionate embedded low level Software Technical Leader for Automotive Applications? You want to support the development of disruptive products accelerating the car powertrain electrification? At Silicon Mobility, we would like to light up our employees' potential. Are you up for the challenge? Contact us and send your resume and cover letter to **recruitment@silicon-mobility.com**

ROLE & MISSIONS

The System and Software engineering team develops power control and energy management software for electric powertrain applications. As a lead in the team, you will oversee the good execution of the embedded software projects with a strong focus on low-level software providing API abstraction for the higher-level software.

The primary responsibilities of the position include:
- Technically lead the embedded low level software team for the development and testing drivers, CSP, Firmware, BSP, Complex Driver, MCAL.
- Sub-contractor team drive for the verification activities.
- Plan, organize and coordinate the Low-level Software development team tasks.
- Requirement analysis.
- Architecture definition and specification writing.
- Embedded low-level software design, development, and documentation.
- Code and tests review participation.
- Verification using RTL simulation, then boards and debug tools like Lauterbach.
- Coaching and training of junior engineers.
- Quality handling to meet A-SPICE, ISO 9001 quality requirements and development procedures.
- Suggestion and implementation of improvements to the development process.
- Interaction with third parties as part of collaborative projects and strategic partnerships.
- Customer and supplier technical support when needed.

The position requires pro-active involvement with the whole Product and Hardware Engineering team.

REQUIRED SKILLS AND EXPERIENCE

EDUCATION:
- Master's degree in embedded software engineering

TECHNICAL SKILLS & EXPERIENCE:
- A minimum of 5 years' experience in team management/lead.
- A minimum of 7 years' experience in low-level software development in C language (CSP, Drivers, BSP, firmware).
- Strong experience in embedded Driver, Firmware, AUTOSAR MCAL, Basic Software development and configuration.
- Very comfortable in embedded software development on 32 bits RISC CPU environment.
- Expert in real time system constraints.
- Good Experience of the automotive environment and constraints.
- Very good knowledge of System-On-Chip and microcontroller.
- Cybersecurity knowledge and experience is a real advantage (HSM, ISO 21434, EVITA).
- Good skills on Hardware peripherals and on validation on boards.
- Very good experience in verification using RTL simulation (ex: QuestaSim) and automatic test development with test tools such as VectorCast C++.
- Good analysis of solving technical issues.
- Knowledge of debugging tools such as JTAG box and Lauterbach debugger.
- Analytical skills for debugging software.
- ISO26262 knowledge and experience is a plus.

LANGUAGE SKILLS:
- Fluent in English
- French speaking is a plus.

BEHAVIORAL SKILLS:
- Be self-motivated, pro-active, flexible, and able to accept new challenges.
- Be autonomous, organized, rigorous, and have a high sense of priorities.
- Demonstrate strong communication and multi-cultural teamwork skills.