Location: Sophia-Antipolis, France   **Ref: SSW_ELEC_BOARD_DESIGN_ENG**
Employment type: Experienced Professional
Contract type: Permanent position

ELECTRONIC BOARD DESIGN ENGINEER

The Automotive industry is living 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 a "**Electronic Board Design Engineer**" 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 in electronic board design 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

-    This person drives and delivers PCB Layouts for all types of electrical boards, including flexible circuit boards and rigid boards.
-    Prepares layout, detailed drawings, and schematics by using computer assisted engineering design software and ECAD tools.
-    Defines efficient design guidelines, specifications, and best-known design methods and proposes and ideates design asks and solves design complexities.
-    Applies knowledge of high density-high speed, mixed, analog, digital, RF designs, rigid, and flex designs to deliver end-to-end PCB design flow, final design packages for PCB fabrication, including fabrication assembly drawings, and manages PCB documentation.
-    Defines component placement and trace routing rules for components and circuits on a board.
-    Conducts the board layout from feasibility studies to board tape-out, meeting multi-disciplinary platform-level requirements.
-    Collaborates with electrical design, packaging, manufacturing, thermal, and mechanical teams for continuous improvements in PCB design process.
-    Carries out signal and power integrity simulations for design verification to achieve high-quality PCBs. Performs electrical, interface and functional tests.
-    Debugs boards and implements fixes.
-    Support internal Product and FAE teams in adapting our reference boards to customer HW.
-    Provides guidance on vendors fabrication capabilities and fine tunes design for low cost and high reliability.

REQUIRED SKILLS AND EXPERIENCE

EDUCATION:
- Good university degree in electronics engineering

TECHNICAL SKILLS & EXPERIENCE:
- A minimum of 10 years of experience in electronic board development.
- Experience in team management/lead.
- Strong communication skills and leadership.
- Quality management (ISO 9001).
- CAO tools for PCB design.
- PCA testing.
- Good technical expertise in electronic products (FPGAs, microcontrollers, boards).
- Knowledge of low-level software for microcontroller programming and testing software.
- Knowledge of debugging tools (JTAG box, Lauterbach debugger, etc.).
- Analytical skills for debugging boards.
- Experience in the automotive environment and constraints 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 teamwork skills.