



ESSENSIUM

# ESSENSIUM

Your Needs Translated into Silicon

## SoC System Architect

Essensium is looking for an experienced engineer with a system architecture background to play a key role in its engineering team. At this stage, this team is mostly supporting the Soc/SiP business unit, offering turn-key solutions to customers in need of advanced ASIC development; at a later stage, it will be the core team for implementing Essensium's own WSN product roadmap.

### The systems architect has the following responsibilities:

- Starting from a customer's high-level marketing requirements, he creates a top-level design specification and supports the pre-sales process.
- Based on this top-level design specification, he conceives an SoC solution, selects third party IP blocks and creates the detailed block-level specifications, proposing architecture alternatives and evaluating their performance and cost.
- In order to verify the specifications and to support the integration and verification of third-party implementation of the individual blocks in the design, he constructs a SystemC-based model capable of co-simulating the RTL and netlist descriptions of the HW as well as embedded SW.
- Other responsibilities include coordination of the external contributors, holding design reviews and creating/tracking project plans.

### Suggested experience:

- Understanding of processor architectures, instruction set simulation and processor periphery.
- Background in both intra- and inter-chip communication standards, such as AMBA, Wishbone, PCI, PCI Express, USB, SDIO, UART...
- Hands-on experience in C/C++ based system modeling and verification, preferably using SystemC.
- Prior experience in VHDL/Verilog based design and the hands-on usage of EDA tools for RTL simulation, synthesis and verification.
- Domain knowledge in either multimedia or telecommunication systems.
- Result-oriented attitude with excellent communication and team building skills.

### Interested ?

Send your CV and application -> [info@essensium.com](mailto:info@essensium.com) or call +32-16-286500

