FROM HIGH LEVEL SPECIFICATIONS TO REQUIREMENTS: SECURING NEXT-GEN SoC SUCCESS

THE CLIENT

A blue-chip company in smart energy systems entering a critical phase: the development of a custom SoC to boost performance and differentiation in their next-generation product.

THE CHALLENGE

Our client appointed a major chip maker to scale up from a previous generation AMS ASIC to **a specialized SoC embedding smart processing**. Our client required help to formalize their needs and acquire key digital project management capabilities.

Technical support needs:

- Building internal digital expertise, as no SoC has been developed in-house before
- Formalizing new requirements from previous project specifications and current needs.
- Establishing a proper digital verification flow from specification to testbench

Project management needs:

- Structuring communication processes to improve project visibility
- Clarifying expectations between the client and the chip maker

THE PROCESS PATH

THE INITIAL SITUATION

- Conceptual specifications
- No clear process
- Weak development flow
- Project at risk

WE ACT AS A TECHNICAL INTERFACE BETWEEN CLIENT AND CHIP MAKER

OUTCOMES

- Digital SoC development on track
- Requirement-based specification
- Autonomy of internal team reached

OUR SOLUTION

Initially brought in to update the specification and enable test plan generation, our role quickly evolved into a **technical bridge between the client and the chip maker**, translating needs, aligning expectations, and ensuring visibility.

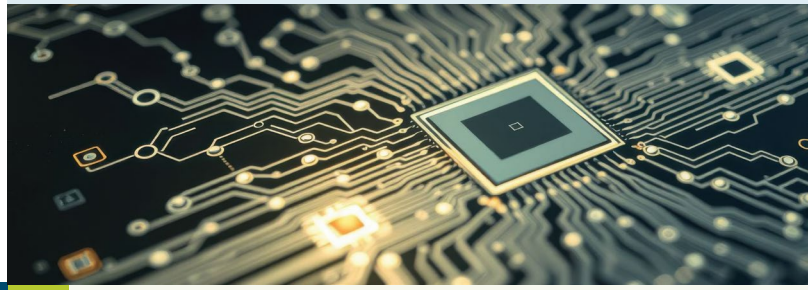
We helped to:

- Formalize the SoC specification,
- Design a requirement-based verification plan,
- Develop a dedicated test environment,
- Setup a Continuous-Integration workflow.

RESULTS ACHIEVED

The client gained **clarity, technical oversight, and peace of mind**.

- **A solid and traceable** digital specification
- **Restored internal ownership** of digital aspects through tutoring and methodology sharing
- **Confidence restored** in the ASIC development process and planning



AEDVICES is specialized in Front-End digital design, development and verification of ICs and Programmable Logic for embedded systems.

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