

# gives the floor to...



## MASSIMO PETRICCA

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### WHAT IS YOUR BACKGROUND?

I received a **MSc in Electronic Engineering** and a PhD (VLSI course) from the **University of Rome "Tor Vergata"** in 2008 and 2012, respectively. I worked on computer arithmetic and VLSI designs for low-power digital signal processing targeting ASIC/FPGA devices as a researcher. I joined **Elettronica (ELT)** in Rome since 2013, initially as a FPGA Designer and now as a system engineer participating in the development of modern digital systems for Electronic Warfare.



### WHAT IS THE ROLE OF YOUR ORGANIZATION IN THE PROJECT? WHAT IS YOUR ROLE?

ELT is involved in the EXCEED project at different levels and with different roles:

1. **WP leader in Work Package 4:** technical, organizational and administrative activities in WP4 with the responsibility to define the **EXCEED SoC/SiP architectures** together with the technical partners involved (e.g., architectural deliverables issues and one project milestone achievement).
2. Active contributor in WP3/WP7: **general SoC/SiP requirements collection activity** (WP3) and **use case implementation** (WP7).
3. Minor contributor in WP2/WP8: general security requirements collection activities (WP2) and project exploitation & dissemination activities (WP8).

**My responsibility is to support these different roles** (leading WP4 activities, in particular)

WP: Work Package | SoC: System-on-Chip | SiP: System-in-package



### WHAT ARE THE EXPECTED ACHIEVEMENTS FOR YOUR WP?

The main aim of WP4 is to derive the **EXCEED SoC/SiP detailed reference design architecture** by analysing the requirements collected in WP2/WP3 (based on defence applications needs) against the SoC/SiP state of the art and manufacturing constraints. This is an important milestone of the project. In WP4 we also derive: links between requirements and architectural building blocks, the test tool environment architecture to support the test plan derived in WP3.



### WHAT WILL EXCEED BRING TO YOU AND YOUR ORGANISATION?

The EXCEED project represents a great opportunity for ELT. **While the consortium is aiming to create a trusted semiconductor supply chain of sovereign European technology**, ELT has the possibility to specify the **SoC features according to its own needs and experience** in the defence market incrementing the competitiveness of its products, on a long term perspective. Moreover, the team created to deliver the project results is composed of partners who are experts in different fields of engineering. **In this context, ELT (and I) has the opportunity to improve its knowledge by solving the challenges of the project together.**