



UNIVERSITÀ
DI PAVIA

NATIONAL PHD SCHOOL IN
MICRO AND NANO ELECTRONICS
phd-mne.unipv.it



May 29th 2024, 4PM
Magenta Seminar Room
Dept. ECBE, D Floor

Model-based functional safety analyses of complex automotive SoCs

Speaker: Marco Marazza (ESKUBE S.r.l.)



Tesla's ~6 trillion transistor MCU

Abstract: The latest automotive ambitions of realizing autonomous driving demand unprecedented system-on-chip (SoC) complexity. Yet, safety requirements aim at guaranteeing absence of unreasonable risk due to hazards caused by malfunctioning behavior of E/E systems (e.g., SoC). Chip development companies need more than ever system engineering methods, tools and skills to cope with the challenges set by this revolution. This seminar will illustrate some emerging technologies and methodologies to keep up with the soaring of SoC complexity.