

TECHNICAL TRAININGS, WEBINARS AND ACADEMIC LECTURES

13 December 2023, 16:00-17:00 Application driven development III: Cloud Co-Simulation

by Andreas Albrecht

In this three part series of “Application driven development” you will get an insight in power electronics system design. We will utilize modern tools provided by Infineon used for embedded coding as well as cloud co-simulation. As a reference application we will focus on USB-PD (Power Delivery).

In this unit we will create a co-simulation of power electronic components and a microcontroller (XMC) using the Infineon Designer (SPICE). Co-simulating will combine analog and digital simulation functionalities for rapid prototyping. For this, we use the knowledge already learned from Part I and the software generated in Part II to simulate a simple boost converter topology. This allows us to verify the schematic as well as debug the C-code created in DAVE IDE without the need of real hardware.

Participants are invited to simulate themselves and ask questions at any time. For interactive participation, it is recommended to install DAVE IDE in advance and to create a myInfineon account in order to fully use the online simulator.

▸ Please register now!

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Andreas Albrecht completed his bachelor’s degree in mechatronics with a focus on electrical engineering in 2015 at the MCI, a University of Applied Sciences in Innsbruck.
Since 2016, he was a research associate at the Infineon Emerging Applications Laboratory at the MCI. His main focus was the creation of SPICE simulations as well as hardware design of various power electronic systems.
Furthermore, he taught subjects like simulation methods or product development. Recently, in 2023, he joined Infineon Technologies Austria AG as a system application engineer and is involved in the development of various systems such as robots, LEVs and battery management systems.

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