## **PLECS WORKSHOP**

Real-Time Simulation Using the PLECS RT Box Plexim GmbH, 25.06.2024

08:30	Registration and Installation of Necessary Features
09:00	Overview and Introduction to RT Box Workflow using PLECS  PLECS overview Ideal switch concept From PLECS offline models to RCP and HIL Code Generation
09:30	RT Box Introductory Exercise  ▶I PLECS RT Box features Exercise: Introductory exercise using I/O ports
10:30	RT Box Library Overview
10:45	Break
11:00	Real-time Simulation of a Voltage Source Inverter (VSI)  ▶I PLECS model creation using the target blocks library  ▶I Deployment on the RT Box  Exercise: Voltage Source Inverter (VSI)
12:00	Lunch
13:00	Timing Overview and Step Size Selection  In Iming Step Size Selection  In Iming Step Size and Calculation time  In Iming Overview and Step Size Selection  In Iming Overview and Step Size Selection  In Iming Overview and Step Size Selection
14:30	Model Optimization  ▶I Sub-cycle averaging and power modules ▶I Model separation  Exercise: Model splitting of a DTC example
15:00	Break
15:15	Virtual Prototyping  ▶I Concept of virtual prototyping  ▶I Extension of VSI with controls  Exercise: Virtual prototyping of a VSI
16:15	RT Box Hardware-in-the-Loop (HIL) Application Demo, Q&A
17:00	End of Workshop
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Location	Plexim GmbH, 3 <sup>rd</sup> Floor, Zeppelin Wing, Technoparkstrasse 1, 8005 Zurich, Switzerland
Note	This workshop addresses to anyone who already has experience with the simulation software PLECS.

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