

Typhoon HIL TechDay 2025 Program

Pre-Conference HIL Premium Training

June 24th, 2025 | Novi Sad, Serbia



Hands-on premium HIL training, delivered by Typhoon HIL engineers, with the following session options:



8:30 - 17:00

HIL Power User Training
HIL Test Automation Training



20:00 - 22:00

Welcome Drinks with Appetizers

Restaurant "Kod Fazana 1822"

[Njegoševa 9, Novi Sad](#)



TechDay 2025 Conference Day 1

June 25th, 2025 | Novi Sad, Serbia



8:15 - 9:15

Registration with Coffee and Pastries

Expert Presentation and Discussions



9:15 - 9:30

Nikola Celanovic, CEO, Typhoon HiL

Opening & Welcome



9:30 - 10:00

Dusan Majstorovic, CTO, Typhoon HiL

Driving Innovation: Highlights and Insights from Typhoon HiL



10:00 - 10:30

Adrien Genic, Director of Engineering, Typhoon HiL

Plug-n-Play OEM Models



10:30 - 11:00

Coffee Break

Expert Presentation and Discussions



11:00 - 11:30

Stefano Pane, Control Engineer, NHOA Energy

HiL for ESS Applications: Meeting Real Industry Demands



11:30 - 12:00

Lisette Joanne Cupelli, Senior Technical Specialist, Electrical System Simulation and Optimization,
Rolls Royce Power Systems AG

Derisking Complex Systems: The Role of HiL in System Integration



12:00 - 12:30

Thierry Rohmer, System Architect & **Annaïg Clément**, R&D engineer, Socomec

Socomec Energy Storage System Digital Twin



12:30 - 14:00

Lunch Break & Networking



TechDay 2025 Conference Day 1

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Expert Presentation and Discussions



14:00 - 14:30

Jovan Zelic, Senior Modeling Engineer, Typhoon HIL

Wide bandgap revolution: Enhanced real-time simulations for high-frequency converters



14:30 - 15:00

Martin Osvaldo Castor, Application Engineer, Infineon Technologies

Great development environment for xEV applications with AURIX™ TC4x and AURIX™ development Studio



15:00 - 15:30

Ognjen Bjekovic, Software Team Project Lead, ZF

ZF E-Mobility Portfolio: Touchpoint with Typhoon HIL solutions



15:30 - 16:00

Bernd Wille-Haussmann, Head of the group Smart Grid Operation and Planning, Fraunhofer ISE

EV Charging Twin – Testing of Smart Charging Infrastructure

Live Demo & Deep Dive Session with refreshments



16:00 - 18:00

Digital Substation HIL Testbed

Digital Substation Testing Solution

BMS HIL Testbed

DriveLab ACS880 HIL Compatible

BESS HIL Compatible

e-Drive HIL Testbed

On-Board Charger Testing Setup

TyphoonSim® & TI C2000 Toolbox

EV Smart Charging HIL Testbed

MyDrive® HIL Compatible



20:00 - 23:00

Gallery Tour & Conference Dinner

The Gallery of Matica Srpska

[Trg Galerija 1, Novi Sad](#)



TechDay 2025

Conference Day 2

June 26th, 2025 | Novi Sad, Serbia



8:30 - 9:00

Coffee with Pastries

Expert Presentation and Discussions



9:00 - 9:30

Lucas Chidiac Cherian, Power Systems Engineer, ABB ELSE Iberia [Remote]
Success Story: ESABB ELSE and Typhoon for Modeling and BESS Solution in Frequency Converters Controlling 12.8 MVA Motors



9:30 - 10:00

Florian Hans, Senior Scientist, Electrical System Integration, Fraunhofer IWES
Towards multi-HIL simulations for testing large wind energy systems



10:00 - 10:30

Dimitrios Tzelepis, CTO & Co-founder, SMPnet
Autonomous Grid Management: Physics-Based Control with AI-Driven Insights



10:30 - 11:00

Coffee Break

Expert Presentation and Discussions



11:00 - 11:30

Xinhua Ke, Global Technical Product Manager, ABB Ltd
From concept to confidence: unlocking the power of HIL testing with DriveLab



11:30 - 12:00

Søren Bækhoj Kjær, Lead Control Engineer, Danfoss Drives [Remote]
10 Years with HIL - How it started, lessons learned and leap to 2030



12:00 - 12:30

Paco Caballero Ortega, Product & Application Engineer, Power Electronics
Lessons from the Iberian Blackout: How HIL Testing with VISMA Supports the Energy Transition



12:30 - 14:00

Lunch Break & Networking



TechDay 2025

Conference Day 2

June 26th, 2025 | Novi Sad, Serbia



Expert Presentation and Discussions



14:00 - 14:30

Humberto Pinheiro, Full Professor, Federal University of Santa Maria
Grid Forming Inverters: Principles, Control, and Applications



14:30 - 15:00

Henrique Magnago, Head of Test Automation & **Madi Zholbaryssov**, Senior Applications Engineer, Typhoon HIL
Towards HIL Based Grid Forming Inverter Testing, Certification, and Power Plant Integration



15:00 - 15:30

Alfredo Velazquez Ibañez, Research Associate, Zurich University of Applied Sciences (ZHAW)
Development and Testing of Controllers for Grid-Connected Converters Using Typhoon HIL



15:30 - 16:00

Coffee and Networking

Expert Presentation and Discussions



16:00 - 16:30

Tyson Dagorne, Research Engineer, Silicon Austria Labs
Model Based Embedded Code Generation: A Pathway for Effortless Embedded Implementations



16:30 - 17:00

Milos Miletic, Modeling Team Lead & **Caio Osorio**, Global Manager of Academia Programs, Typhoon HIL
From Simulation to Real-Time in One Click: A Unified Platform for Teaching, Research, and Engineering



17:00 - 17:30

Felix Goeke, Research Associate, TU Dortmund
Teaching the next generation of HiL engineers – Bridging the gap from academia to industrial applications



17:30 - 18:30

TechDay Closing Remarks & Networking with Finger Food and Refreshments

