

nexperia



UNIVERSITÀ
degli STUDI
di CATANIA

«Virtual Prototyping and Design of Power Modules for Power Applications»

Università degli Studi di Catania
Aula Magna – Polo tecnologico
Seminar – May 26, 2026 – 3:00 PM

BGWIM R&D Simulation Team

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Seminar – Università degli Studi di Catania

«**Virtual Prototyping and Design of Power Modules for Power Applications**»

- Introduction to Nexperia
- Application context: electrification and data centers
- Power modules: definition, architectures, and advantages over discrete solutions
- Design risks: electrical, thermal, and electromagnetic aspects
- Virtual Prototyping and simulation-driven design approach
- Electromagnetic simulations
- Multiphysics simulations and electro-thermal effects
- System-level simulations and performance evaluation
- Conclusions and opportunities at Nexperia



EFFICIENCY WINS.

