



**No Magic**  
**EUROPEAN**  
**CONFERENCE**  
5-6 JUNE 2018 TECHNIK MUSEUM SPEYER

**TRAINING**

**FUNDAMENTALS OF EXECUTING SYSTEM MODELS**

Today simulation focus is on specific aspects of engineering, such as hardware or data. It is mainly a tool for electrical, electronics, and mechanical engineers as opposed to being a tool for systems engineers. In these engineering disciplines, simulations are typically performed on a physical model of the component or less likely sub-system, or a system. The ability to simulate high level system design provides a comprehensive view of the system as a whole and helps to gain understanding of a system without manipulating the real prototype. This training focuses on simulation as a tool for systems engineers. The training provides a foundation on how to create precise system models in SysML that can be executed combining fUML and SysML parametric techniques. The training is very practical – it is based on an educational case study model, which explains model execution semantics and demonstrates how to perform trade studies, Monte Carlo simulations for analyzing uncertainty propagation, requirements verification, and co-simulation of external models. Attendees will also learn how executing models can help to better understand and communicate them, debug complex behavioral models, create functional system prototypes, verify requirements, create test case scenarios, and perform various engineering analysis tasks.

The training is followed by a case study as a part of a real-world system model with a widely recognized MBSE tool Cameo Systems Modeler.

**INSTRUCTOR:**

**NERIJUS JANKEVICIUS**

**PRODUCT MANAGER, NO MAGIC EUROPE**

**Audience:** Requirement engineers, system architects, system engineers, software architects and other stakeholders who are creating and planning to execute models

○ **Prerequisites:** Understanding of SysML

○ **Methods:** Presentations, discussions, and case study-based practical assignments

○ **Course Materials:** Slides, case study model, and practical assignment descriptions

○ **Certificates:** Each participant receives a No Magic certificate indicating that he or she attended the training

Nerijus Jankevicius is a Product Manager at No Magic and is responsible for managing and envisioning the development of the Model-Based Systems Engineering environment. Over the past 19 years at No Magic he has been actively involved in the development of MagicDraw®, the SysML Plugin and Cameo Simulation Toolkit, helping to make these solutions among the most recognized MBSE solutions in the industry.

Over the last 10 years, Nerijus has contributed to both the UML® and SysML standards working groups at Object Management Group (OMG®). Nerijus is known in the industry as a leading UML/SysML subject matter expert/consultant and is one of the first OMG Certified Advanced UML 2.0 Professionals in Europe.

Nerijus has delivered numerous workshops and trainings in Systems Modeling, Model Execution, and Model Based Systems Engineering (MBSE) at major enterprises including NASA/JPL, Bombardier Transportation, GE Transportation, Kongsberg Defense & Aerospace, Pratt & Whitney Canada, BAE Systems, MITRE and others. Nerijus is also a frequent presenter at a wide range of international conferences.