



# VIRTUAL PRODUCT AND SOLUTION DEVELOPMENT

## ***Course Descriptions***

This 1 day class is a combination of lectures and workshops. During the workshops we will work on your implementation and roll-out plan. The intention is to provide the audience with an overall understanding of the topic rather than deep-dive into its complexity. This course is well suited as well for small and medium-sized businesses.

## ***Learning Outcomes***

- Understand the capabilities, application fields and limitations of numerical modelling and simulations.
- Know the different tools and methods for standard industry purposes such as System- Modelling, simple Physical Models, Multi-Body-, Multi-Physics, Finite-Element (Structure FEM and Fluid CFD) Simulation .
- Understand how these different tools and methods should be combined and integrated into the development process.
- Be able to create a holistic and strategic implementation plan into your organisation.

- Be able to balance investments with expected improvements.

### ***Who Should Attend?***

- Managers and engineers who are responsible to reduce product development time, cost and risks.
- Managers and engineers who want to include modelling and simulation into their development process.
- Simulation engineers who are interested in the bigger picture.
- Everybody in research and development who already thought that simulation might be a good idea but did not know where to start.

### ***Course Rates***

Rate: 800 CHF

### ***Duration***

1 day

### ***Delivered By***



Thomas Meenken

Thomas is a passionate driver of Systems Engineering and more specifically numerical simulation to promote complex systems development to its next level.

He has worked in various roles as Systems Engineer, project- and department-leader, in several industries, including semiconductor, optics, defense and health-care. His international projects involved multi-disciplinary teams often consisting of Mechanical, Electrical, Technology, Software and Optical Engineers.

After writing his first finite-difference simulation-code during his Master-Thesis in Canada, he constantly applied numerical simulation and modeling to improve product and solution development during his further career.

As the founder and chairman of the Roche Global Systems Engineering Expert Forum, Thomas set the foundation of a holistic implementation of this key discipline within Roche. More recently Thomas has dedicated his efforts towards the improved alignment between business aspects and product-development.

As a seasoned presenter with a strong drive to effectively transfer a message across to key Stakeholders, he is able to present initiatives, ideas and results in a professional and convincing manner.