



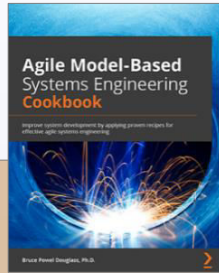
Agile MBSE

Lunch and Learn Series

with

Bruce Powel Douglass, Ph.D.

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Wed Jan 12, 2022
12:30 – 1:30 PM EST

Session 7

Model-Based Testing: What it is and how to do it

Dr. Bruce Powel Douglass has deep and broad expertise from over 40 years experience, specializing in both model-based systems engineering and model-driven development for embedded software for safety-critical systems. He has developed systems in a number of subject domains including aerospace, defense, medical, automotive, and telecommunications. He is a coauthor of the UML and SysML standards and is the author of over 7000 book pages from a number of technical books including Agile Model-Based Systems Engineering Cookbook (2021), Agile Systems Engineering, The Harmony aMBSE Deskbook, Real-Time UML, Real-Time UML Workshop for Embedded Systems, Real-Time Design Patterns, Doing Hard Time, Real-Time Agility, and Design Patterns for Embedded Systems in C. He is formerly the Chief Evangelist at IBM and currently the Senior Principal Agile Systems Engineer at the MITRE Corporation. His web site www.bruce-douglass.com has free papers, presentations, forums and more. *Flyer v1, 05Dec2021, J. Stein*

Session Description. Models are most commonly used to develop specifications and designs. However, models can also be used to specify testing information and structures, as exemplified in the UML Testing Profile standard. This session focuses on the relevant aspects of testing – test case development, constructing test architectures, applying the tests, and managing test verdicts – in the UML or SysML. While coverage of the UML Testing Profile is provided, examples will be shown on how the concepts of the profile can be easily applied.



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