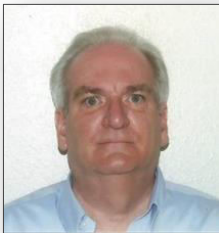# MBSE and Requirements Engineering: Utilizing UML and SysML to Apply ISO/IEC/IEEE 29148

Thur June 16, 2022
6:30 – 8:00 PM EDT

INCOSE

Geoff Shuebrook
System Engineer Senior Staff
Lockheed Martin Corporation

A **FREE** Virtual Meeting (1 PDU)
Registration Required

Geoff Shuebrook is a Systems and Test Engineering Professional with extensive product development experiences spanning the continuum of system and project life cycle processes with an emphasis in Integration and Test. He has spent 13 years as a System Engineer Senior Staff with Lockheed Martin Corporation. His knowledge spans many different forms of modeling: Unified Modeling Language (UML), Systems Modeling Language (SysML), UML Testing Profile (UTP), EAST-ADL, as well as Model-Based Systems Engineering (MBSE) and Model-Based Test (MBT) practices and several system development methods and methodologies (e.g., Model-Based Systems Engineering Method (MSEM), Object-Oriented Systems Engineering Method (OOSEM), Harmony SE, SYSMOD).

Abstract. This presentation will discuss some simple-to-implement practices of the ISO/IEC/IEEE 29148 Requirements Engineering standard that can be applied to models. A look into 2 exemplar models (i.e., implementations of OMG's UML Testing Profile standard and an implementation of OMG's SysML v1.5 Annex E.8 Building Non-Normative Extensions for Property-Based Requirements) will demonstrate these principles and a candidate approach to merging natural-language requirement statements, requirement statement structural patterns, and Property-Based Requirements.

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