

7th Annual INCOSE Great Lakes Regional Conference

Leadership Through Systems Engineering

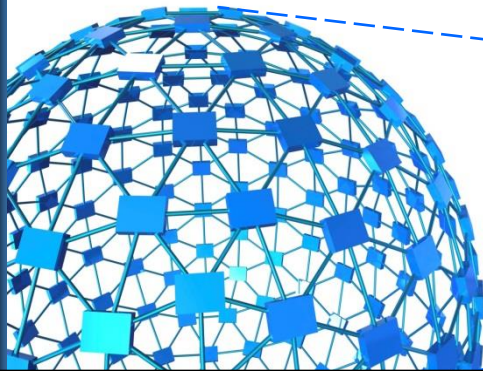
Aerospace | Commercial | Defense | Health Care | Manufacturing | Academia

Seth Sampathkumar, *Integrated Robust Engineering Workflow*

Abstract: The main objective of this presentation is to describe Cummins Turbo Technologies (CTT) Robust Engineering workflow which is an integration of SE & other engineering sub-workflows into a single and coherent one. CTT developed the Robust Engineering workflow to ensure our global teams have a solid understanding of how different pieces of internal engineering workflows fit with each other and also to explain how the information flows between them to enable proactive SE approach during product development. In this presentation, the high level integrated workflow will be described along with details on how information flow is enabled between different tools & processes. A simple integrated workflow is important to ensure uniform application of engineering rigor globally in our product development teams. Based on nearly three years of implementing this integrated workflow, we have seen benefits in terms of positive and proactive approach to Systems Engineering during product development. In other words, an easy to understand and implementable workflow lets the engineering teams "engineer the product" without getting bogged down in process complexities. The target audience for this presentation will be practitioners of Systems Engineering who can potentially take this approach to their organization for similar benefits.

Author:

Abstract



**GLRC 2013: *Leadership
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