



# Digital Engineering and Transformation

March 16, 2021

Please register via Eventbrite, or see <http://www.incose.org/cleveland>

5:30 PM EDT

Virtual – Online Meeting

(Connection information will be available to registrants on Eventbrite)

## Speaker: Troy Peterson

**Biography:** Troy Peterson, SSI Vice President, and INCOSE Transformation and FUTURE Champion is a recognized leader in developing model based solutions to speed innovation and solve complex systems challenges. He has led the delivery of numerous complex systems and methodologies as a Vice President at SSI, Booz Allen Fellow and Lead Engineer at Ford Motor Company. His experience spans academic, non-profit, commercial and government environments across all lifecycle phases. Troy received a BS in Mechanical Engineering from Michigan State University, an MS in Technology Management from Rensselaer Polytechnic Institute and an advanced graduate certificate in Systems Design and Management from Massachusetts Institute of Technology. He also holds INCOSE CSEP, PMI PMP, and ASQ Six Sigma Black Belt Certifications.



**Troy Peterson**

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**Abstract:** Systems continue to reach new heights of complexity and autonomy. They seamlessly intertwine computational algorithms and physical components, providing organizations tremendous opportunity while also exposing them to significant risk. The problem is that while systems become more interconnected, and intelligent development methods are lagging behind, not keeping pace with contextual and technological change. Many organizations still follow a traditional document-based approach, which is fragmented, slow, and error-prone, lacking the agility and scalability required today. Other organizations are beginning to apply model based methods; however, the approach is often ad-hoc and mirrors the document-based approach using model-based tools that usually do not scale to the broader enterprise. Many organizations are now asking how to advance development methods through model-based methods and new approaches to overcome the significant

mismatch between the complexity of the systems and our ability to manage and mitigate the associated risks

Digital Engineering is now the fundamental approach being pursued across industry and government domains to address system complexity and provide the order of magnitude improvements called for by today's dynamic environment and systems. While models underpin the path forward to apply advanced methods and enable the digital enterprise to respond with the necessary speed, scale, and agility, many challenges still exist and must be addressed by the engineering community.

This presentation will outline some of the fundamental drivers for Digital Transformation, why Digital Engineering is the key to the broader Digital Transformation, as well as share some best practices, lessons learned, and activities underway to help pave the path forward for Digital Engineering.

We hope that you can join us!