Accelerate Your Journey from "Concept to Delivery"

written by Lauri Moon | January 15, 2020

Increase Innovation and Speed Your Design Path with Additive Manufacturing & Function-Driven Generative Design

Every business struggles with reducing the time from design concept to final product. A matter of weeks can be the difference between first-to-market leaders and industry laggards. When combined together, additive manufacturing and generative design can be the secret weapon to dramatically increase your innovation potential while delivering substantial time savings on the journey from concept to delivery.

In this webinar, we will highlight a **real-world manufacturing case study that reveals the true potential of this technology collaboration.** From the design of an innovative search and rescue small unmanned aerial vehicle in partnership with Wichita State University to the rapid production of a new wind tunnel model, this project showcases demonstrate the lightweighting, topology optimization and design innovations the technologies make possible and the **unprecedented timelines for delivery** they enable. Further, during the showcase we will also highlight how the "platform" approach dramatically increased collaboration across the entire project.

Join us on January 23 as Dassault Systèmes demonstrates how Additive Manufacturing and Function-Driven Generative Design can help you:

- Utilize leading function driven design competencies across your entire innovation horizon
- Explore, test and validate for both additive and subtractive manufacturing with requirements driven tradeoff studies
- Design, optimize and manufacture, maintaining your digital thread, all within a single platform

About Dassault Systemes: Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable

innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 250, 000 customers of all sizes, in all industries, in more than 140 countries.

Speaker

Ryan Benyshek, Solution Consultant, Dassault Systèmes

Ryan Benyshek is a Solutions Consultant at DS Government Solution Corp. He received his Bachelors and Masters in Aerospace at the Department of Aerospace Engineering, Wichita State University in 2017. He worked for the National Institute of Aviation Research (NIAR) at Wichita State University, where his primary focus was Reverse Engineering and Additive Manufacturing. The latest projects at NIAR included being the design lead for sUAS design and testing, as well as a project lead for aircraft accident reconstruction.

Industrial Use Case for GDE: Last year, a joint effort between Dassault Systèmes and Wichita State was created to design a search and rescue small unmanned aerial vehicle (sUAS). The drone was a technology demonstrator case for the future of UAV manufacturing on the 3DExperience platform. The full lifecycle of the program deeply incorporated additive manufacturing to accelerate the delivery timeline. Some examples of additive manufacturing's timeline acceleration were to produce the wind-tunnel model within two weeks. Additive manufacturing was also used to create composite tooling, air ducting, and structural brackets. The highlighted use case will cover the role that topology optimization played in light weighting

additively manufactured parts for a mission critical system of the sUAS.

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