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The Model-Based CAD Handbook by J.B. Herron

Charting the Transition from Engineering to Inspection through Quality Reporting

Posted on September 27, 2017 by Michelle Nordwald

Glen Voglesong of Faurecia-Automotive Seating Business Group-NAO will present at the 2017 **Quality Information Framework (QIF) Symposium**. The 3D Collaboration & Interoperability Congress (3D CIC) and the QIF Symposium will be held in Golden, Colorado on October 3-5, 2017.

PRESENTATION

Charting the Transition between Engineering Specifications, the 3D Model, and Inspection through Quality Reporting

Recently, a Strategic Automotive Product Data Standards Industry Group (SASIG) white paper by the Japan Automobile Manufacturers Association (JAMA) identified "Quality Inspection" as a 'first-order' Model-Based Enterprise down-stream use case. An important aspect of that use case was to adapt the Advanced Product Quality Planning (APQP) Product Part Approval Process (PPAP) Quality Reporting standard (PSW) elements for establishing 3D model-based parametric/product and manufacturing information (PMI) schema during the Product Development Process's "MBD authoring" phase. This led to investigate solution enablers such as certain parts of the Quality Information Framework (QIF) ANSI standard.



Can this need for a comprehensive and stable methodology for 'up-front' management of a Product's Fulfillment Requirements be accomplished through employing the QIF's "Bill of Characteristics" in conjunction with ASME's (New) Y14.45 Measurement Data Reporting standard's "Characteristic Identifiers?" Furthermore, could such 'universally unique identification' methods introduced by the QIF provide a means for redefining the Model's 'granularity' to establish cross-domain "bridges" throughout the Product Lifecycle/Data Management (PLM/PDM) environments?

This presentation addresses the above and current understandings.

PRESENTER

Glen Voglesong
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Glen Voglesong has spent the majority of his career in the automotive industry, spanning the eras from 2D body drafting – with lead pointers & pounce bags – to the brave new world of 3D design with CAD and, now, Model-Based Definition. Glen is deeply committed to Faurecia's Concurrent Engineering initiatives in the Research & Development Department, where he is focused on improving Engineering workflow efficiencies by engaging in the advancement of a culture of "compatibility before completion" through establishing and deploying Predictive Analysis-driven and Set-Based Design methods throughout the Product Development cycle.

Previously, Glen developed curriculum and conducted trainings sessions in the U.S. & China on the application and interpretation of GD&T (ISO & ASME). He was recently recognized for having participated in proofreading Alex Krulikowski's latest "ISO GPS Ultimate Pocket Guide." He has been a member of the Lean Enterprise Institute since 2002, with a special interest in the role of Value-Stream Mapping for Product Development, and is currently learning about the power of 'Appreciative Inquiry' (AI) which: "*advocates collective inquiry into the best of what is, in order to imagine what could be, followed by design of a desired future state that is compelling and thus, does not require the use of incentives, coercion or persuasion for planned change to occur.*"

3D CIC + QIF SYMPOSIUM

The **3D Collaboration & Interoperability Congress** featuring the Quality Information Symposium focuses on 3D CAD collaboration and interoperability for the entire product lifecycle. With the 2017 theme of **UNITE: Engineering & Shop Floor Collaboration**, real users share their experiences with turning design concepts into manufacturing product reality using 3D models. The joint 3D CIC and QIF Symposium event will be held **October 3-5, 2017** at the **American Mountaineering Center** in Golden, Colorado. Find out more and register for 3D CIC + QIF Symposium at 3dcic.com.



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