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DfR Solutions to Present at Siemens PLM Connection

Address rapid reliability analysis with Nastran-Sherlock integration

Beltsville, MD – May 22, 2018 – DfR Solutions, the leader in quality, reliability, and durability (QRD) solutions for the electronics industry, today announced that it is presenting, *Rapid and Accurate Reliability Analysis Through Nastran-Sherlock Integration,* with Honeywell Aerospace at the Siemens PLM Connection - Americas June 4-7, 2018, in Phoenix, Arizona. Dr. Craig Hillman, CEO of DfR Solutions will be co-presenting with Randolph Hook, Staff Mechanical Engineer at Honeywell Aerospace on Wednesday, June 6 at 2:25 PM.

Performing comprehensive reliability prediction of electronic assemblies is becoming increasingly important with the onset of 'electronics everywhere' (also known as IoT). This is even being experienced within the aviation industry with the increasing use of smart sensors through the airframe structure and the rapid interest in electric flight. To improve insight into the reliability and limitations of avionics without increasing engineering resources or extending development time, Honeywell Aerospace and DfR Solutions worked together to develop a Sherlock-Nastran-Sherlock workflow. This workflow starts with the unique ability of Sherlock Automated Design Analysis™ Software to translate flat EDA files into intelligent 3D finite element models. The Sherlock models are then transferred into NX Nastran using the native file schemes to leverage NX Nastran's powerful FEA engine and ability to incorporate external 3D objects. Once thermal and mechanical analysis is complete, the results are ported back into Sherlock for validated reliability prediction algorithms for solder fatigue, vibration, mechanical shock, integrated circuit failure rate, and electrolytic capacitor lifetime. The whole process can be completed within a matter of days and allows for more accurate reliability prediction than traditional handbook methodologies.

'We are very proud that our Reliability Physics software, Sherlock, is such an integral part of the electronics reliability program at Honeywell Aerospace,' said Dr. Craig Hillman, CEO of DfR Solutions. 'We work closely with the avionics industry and are committed to moving them away from traditional handbook methods toward more accurate and reliable, physics-based methods,' noted Hillman. 'DfR Solutions is uniquely structured to support this critical effort through our vast electronics expertise and our groundbreaking software,' said Hillman.

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About Sherlock Automated Design Analysis™ Software

Sherlock is the first-of-its-kind Automated Design Analysis software for analyzing, grading, and certifying the expected reliability of products at the circuit card assembly level. Based on the science of Physics of Failure, or Reliability Physics, it is used by the electronics industry across all markets. Sherlock continues to evolve, incorporating new innovations and enhancements allowing users to manage increasingly complex analyses faster and more efficiently than ever before. For more information about Sherlock, visit www.dfrsolutions.com/what-is-sherlock.

About DfR Solutions

DfR Solutions has world-renowned expertise in applying Reliability Physics to electrical and electronics technologies and is a leading provider of quality, reliability, and durability (QRD) research and consulting for the electronics industry. The company's integrated use of Sherlock Automated Design Analysis™ Software and best practices provides crucial insights and solutions early in product design and development and throughout the product life cycle. DfR Solutions specializes in providing knowledge- and science-based solutions to maximize and accelerate the product integrity assurance activities of their clients in every marketplace for electronic technologies (consumer, industrial, automotive, medical, military, telecom, oil drilling, and throughout the electronic component and material supply chain). For more information regarding DfR Solutions, visit www.dfrsolutions.com.

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