PCB Design for the Real World

Using OrCAD X with Solidworks to codesign your next electronic product

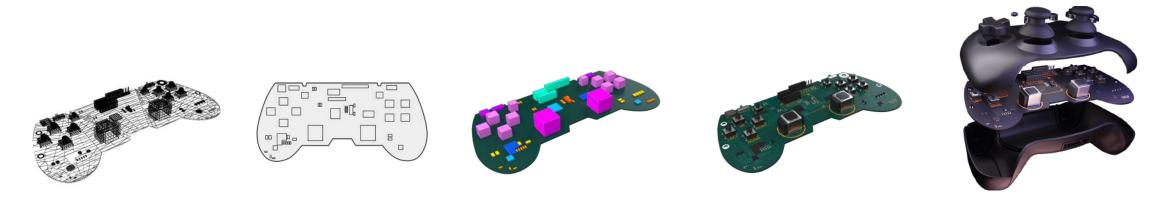
Dan Beeson, Senior Solutions Architect, Custom IC & PCB Group April 11, 2024

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Electrification of Everything

- Electronic and mechanical systems are highly interdependent
 - Challenges/Issues Interference **Thermal Management** Manufacturing Communication

Migration & Limitations of MCAD/ECAD Exchange

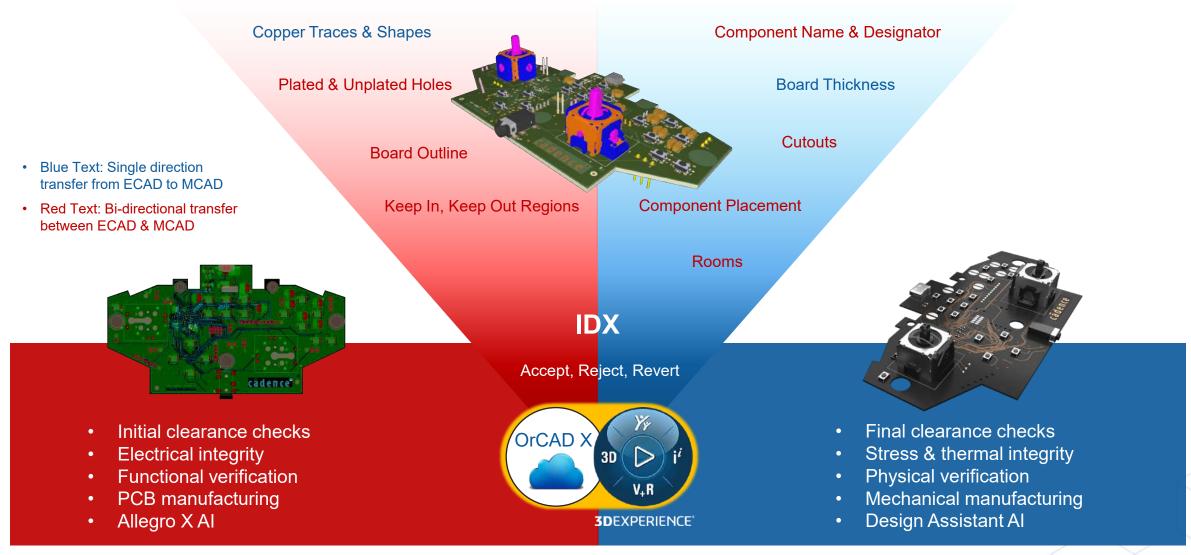


Great at Capturing Mechanical Intent		Incorporation of Electronic Intent			
IGES • Surface model representation • Origin: USAF • Initial release: 1978 • Last update: 1996 • V 5.3 – last version	DXF • 2D vectorized line format • Origin: Autodesk • Initial release: 1982 • Last update: 2007 • V u19.1.01	IDF • 2D with 3rd dimension a property value • Origin: Mentor Graphics • Initial release: 1992 • Last update: 1998 • V 4.0 – continues to evolve	STEP Single solid mode representation Origin: ISO Initial release: 199 Last update: 2016 V AP242 	95 (AP203)	IDX Best of STEP & IDF with incremental change support Origin: ProSTEP Initial release: 2010 Last update: 2022 V 5.0
1978	1982	1992	1995	2010	2024

No management of transactions or traceability

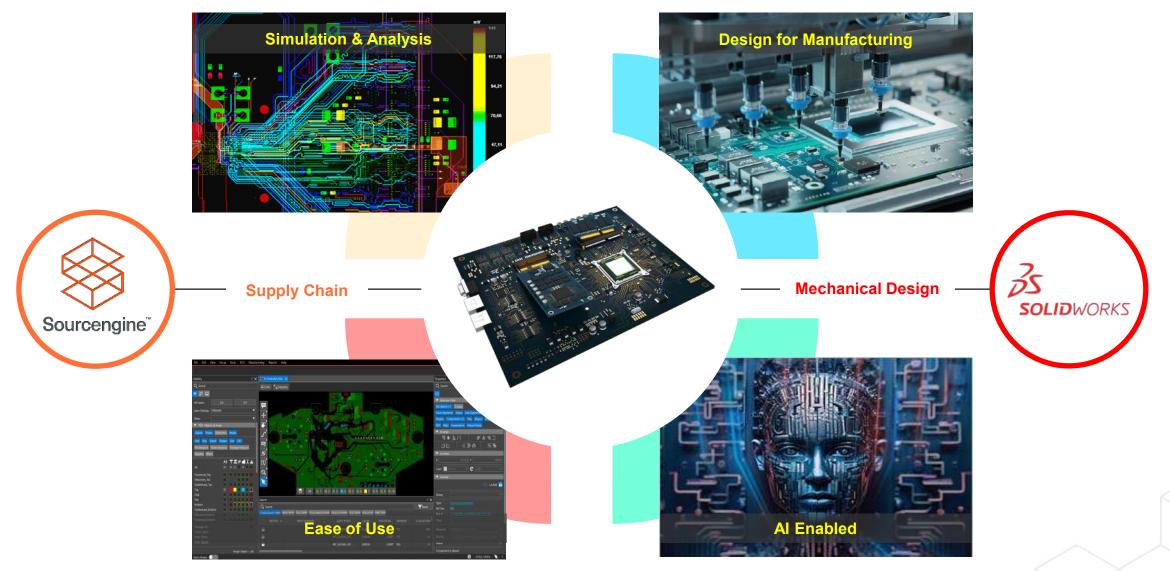
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Harmonizing MCAD/ECAD Data Exchange & Management



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OrCAD X - Complete PCB Product Development Solution



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