Connecting the electronics engineers and mechanical designer with Eagle and Fusion 360

Harv Saund

Technical Specialist – Fusion 360

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About the Speaker



Harv Saund

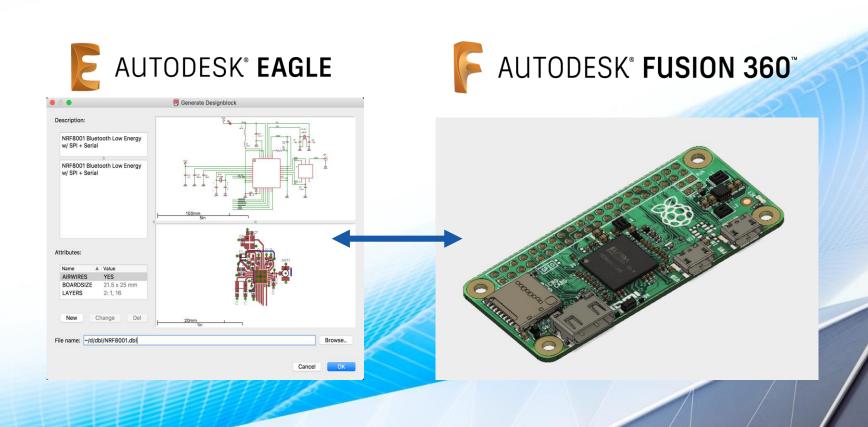
Technical Specialist – Fusion 360, Autodesk UK harv.saund@autodesk.com | @harv_saund Joined Autodesk in 2016.

Prior to Autodesk, 5 years as a Solidworks technical consultant, 2 years spent in Race Engine Development & a degree in Motorsport Engineering

Product focus is the Fusion 360 platform incl. CAM, Eagle, FEA, Generative Design & Library.IO

Agenda

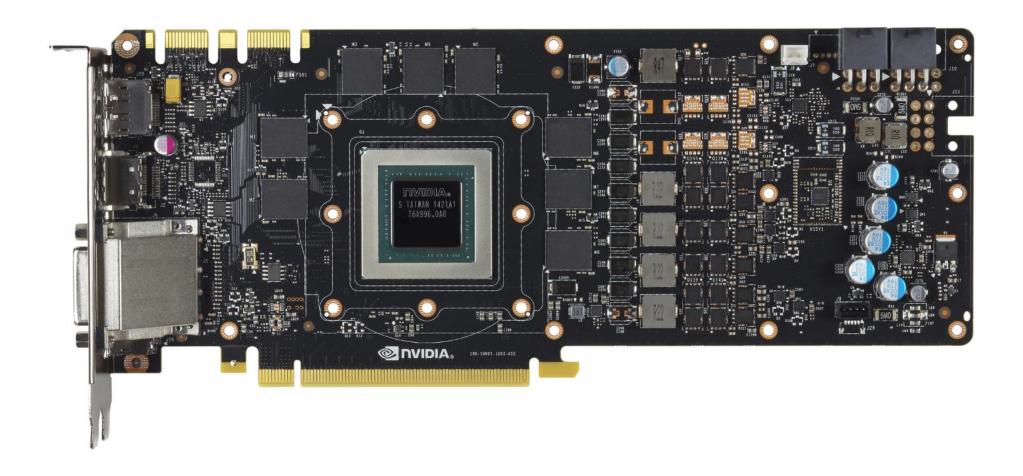
- What is a PCB?
- Cloud Connected
- Workflows
 - Eagle to Fusion
 - Fusion to Eagle
 - Bidirectional
- Summary



What is a PCB?

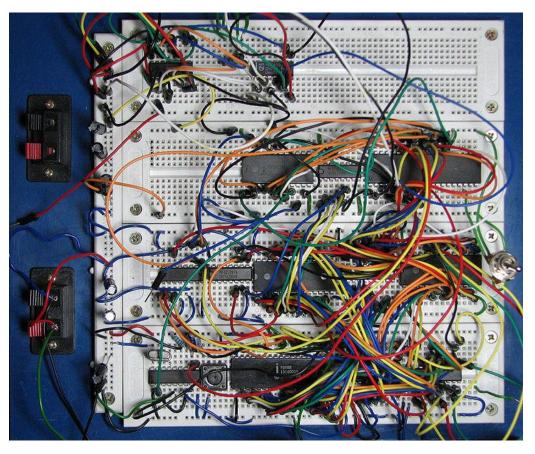


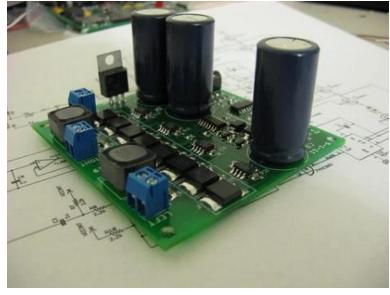
What is a PCB?





What does a PCB solve?





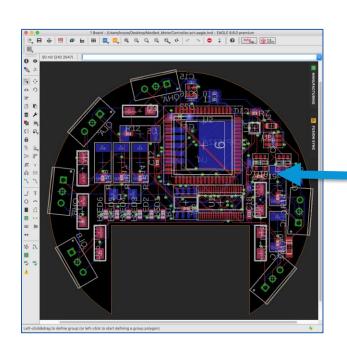


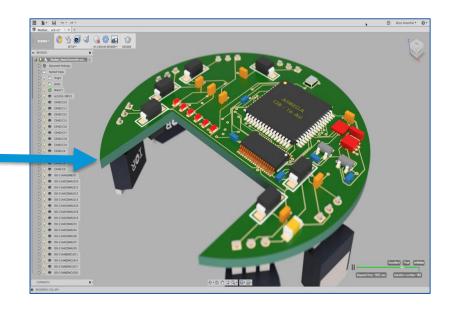
Thinking in Isolation





What is the problem Autodesk are trying to solve?





- >95% of electronics designs have a mechanical design problem
- >90% of those have *multiple*
- Electronics MFG = \$80B TAM



Cloud Connected

What is EAGLE?



Image courtesy of Maga Animation Studio

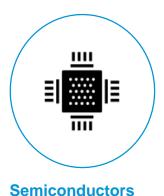


Diversity of application





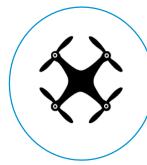












Electronics & High-tech



Mobile Devices & Communication



Industrial Controls
Automation



Research & Education

EAGLE is used widely across different industries and applications

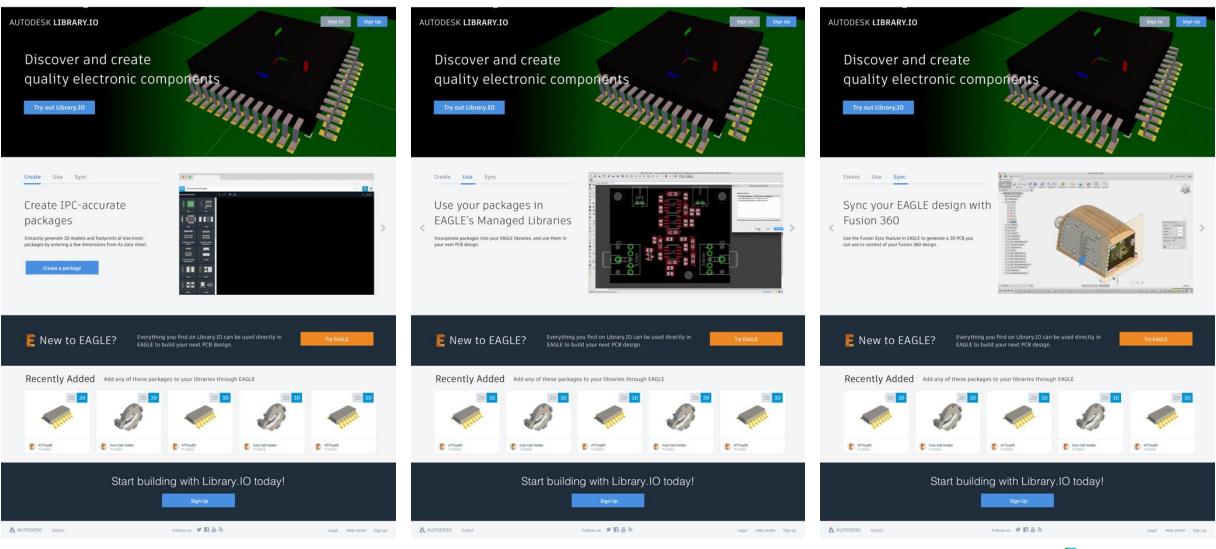


What is Fusion 360

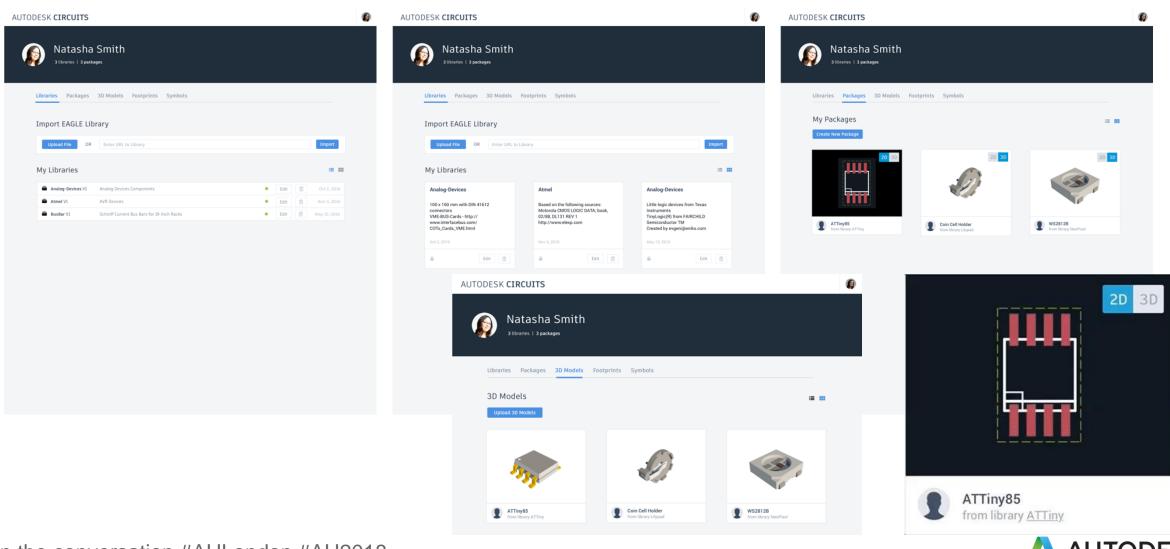




Library.io - the future of 3D ECAD content



library.io - the future of 3D ECAD content



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/Users/hammerr/OneDrive - autodesk/eagle/e-projects/egg-timer/egg1.lbr

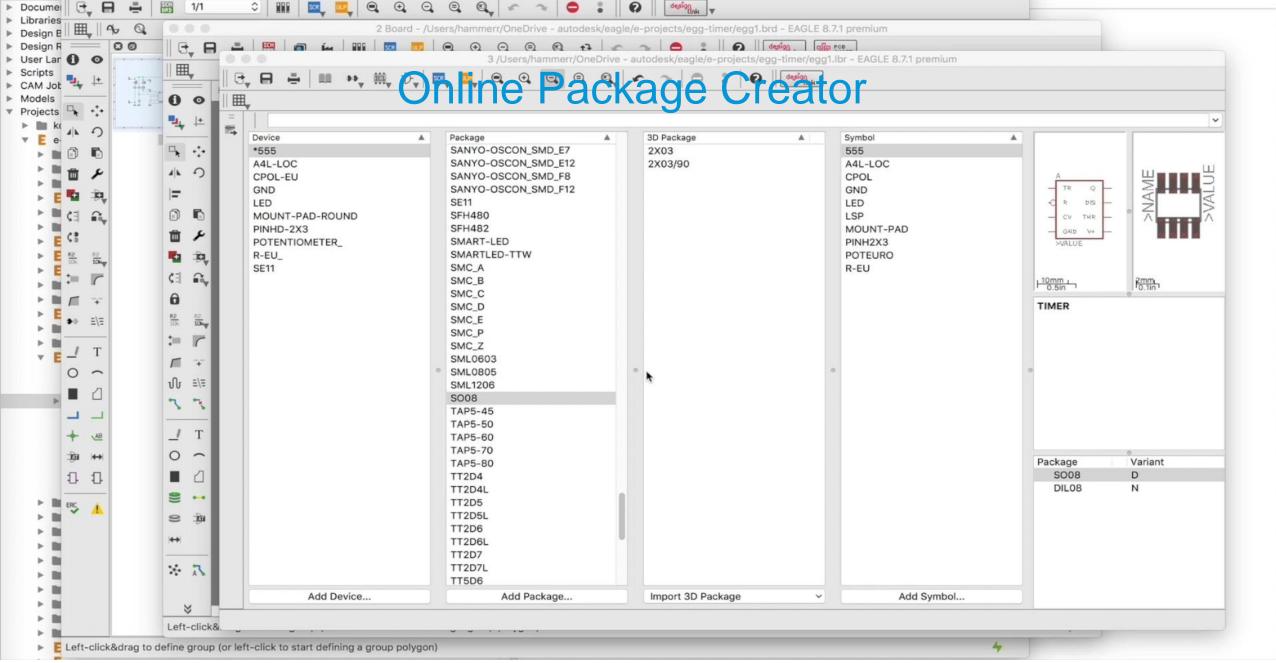
E Left-click&drag to define group (or left-click to start defining a group polygon)

Date: 04.04.18 13:29

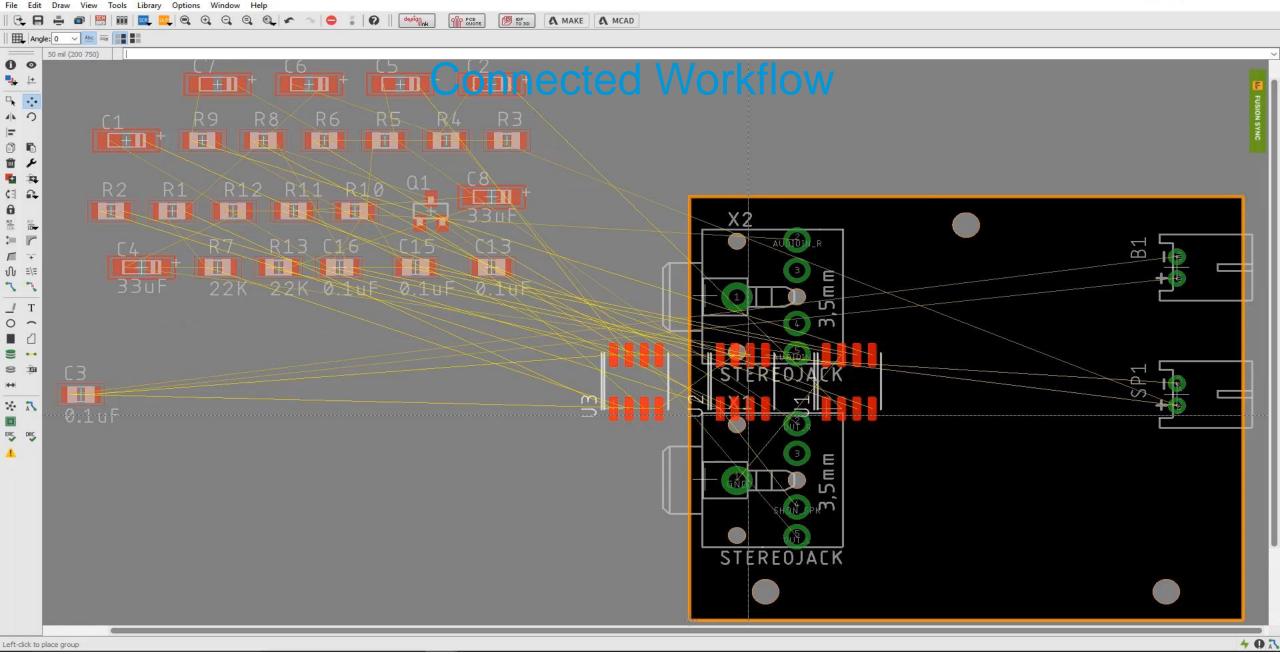
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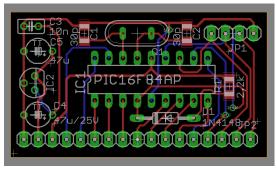


🖲 2 Board - C:\Users\heventb\Downloads\Audio Amplifier\Housing\Audio Amplifier Housing.brd - EAGLE 8.3.0 free

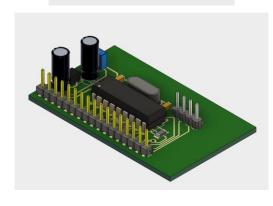
Workflows

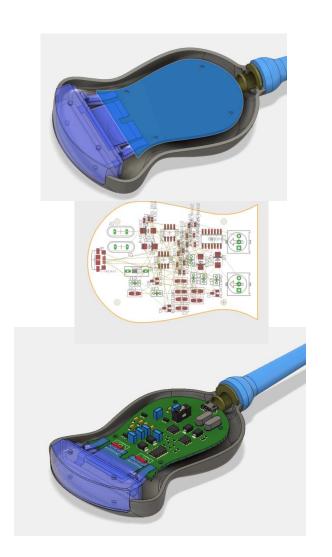


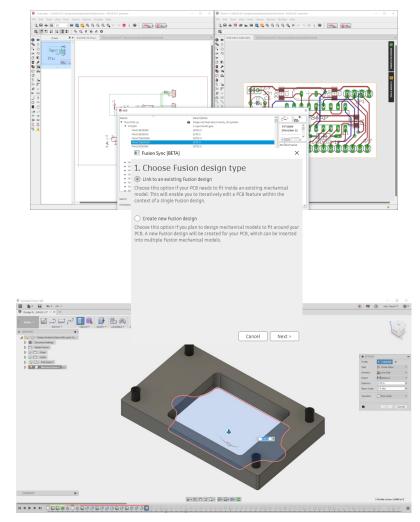
Workflows





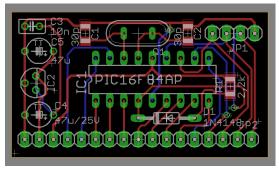




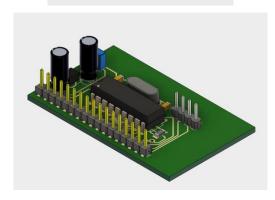


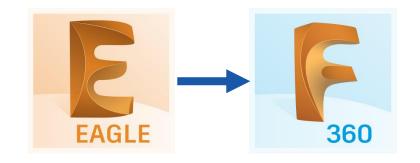


Eagle to Fusion



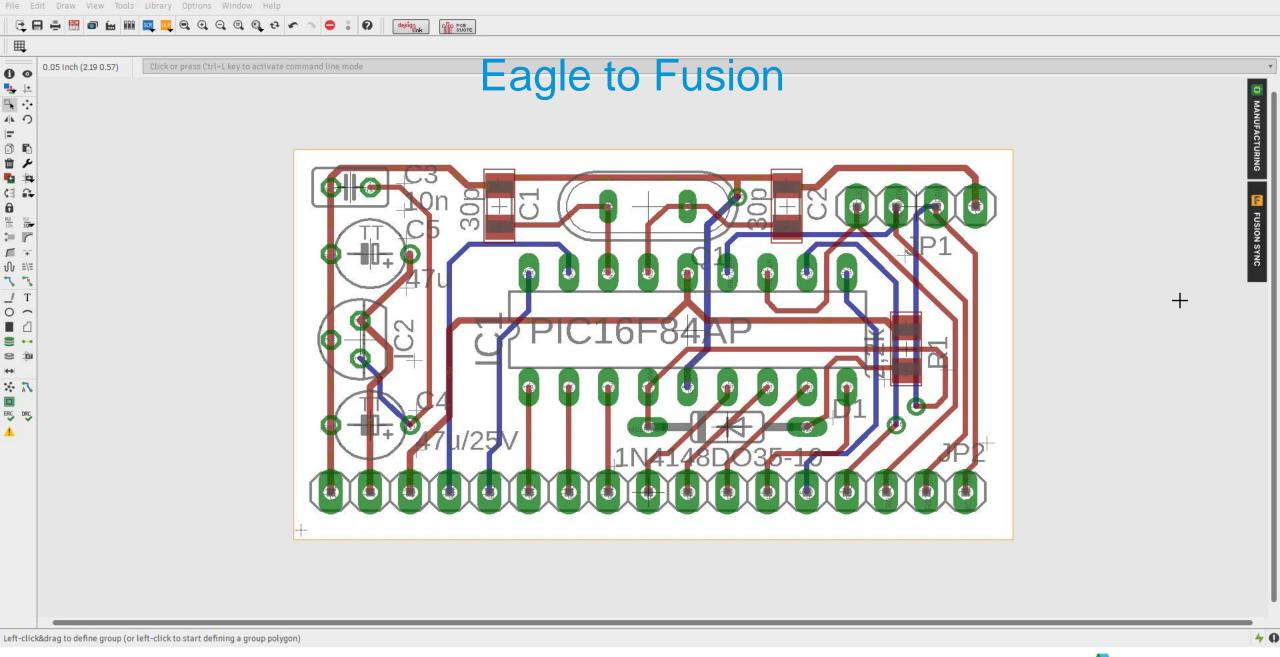






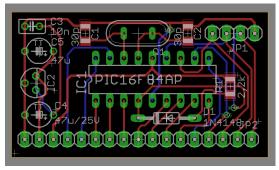




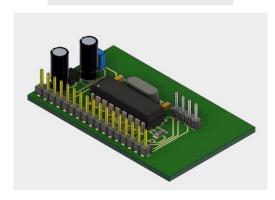


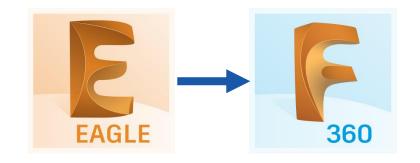
2 Board - C:\EAGLE 9.0.1\projects\examples\tutorial\demo2.brd - EAGLE 9.0.1 premium

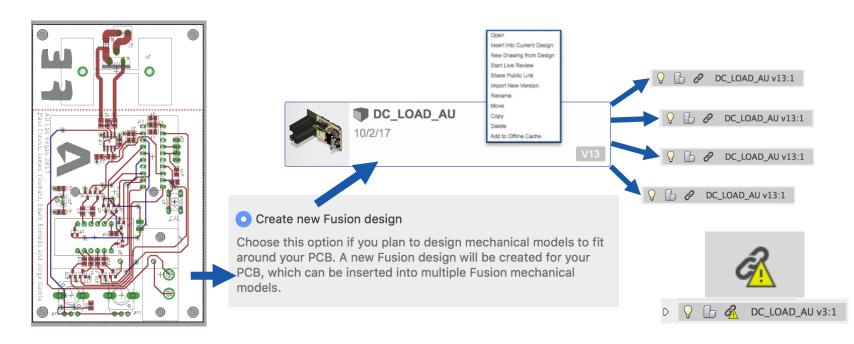
Eagle to Fusion





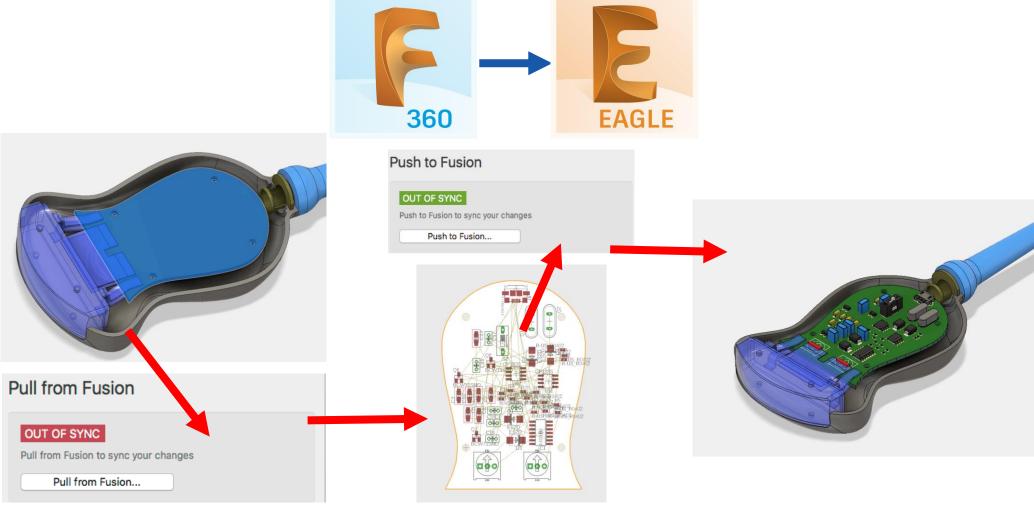




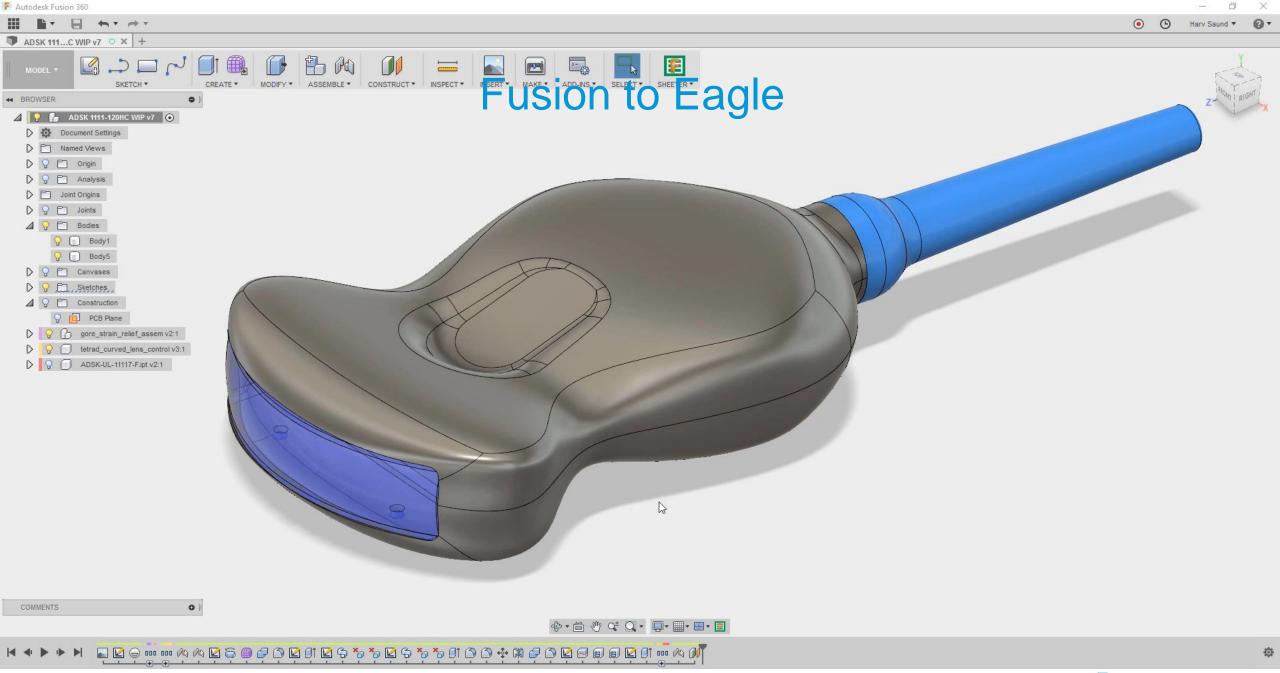




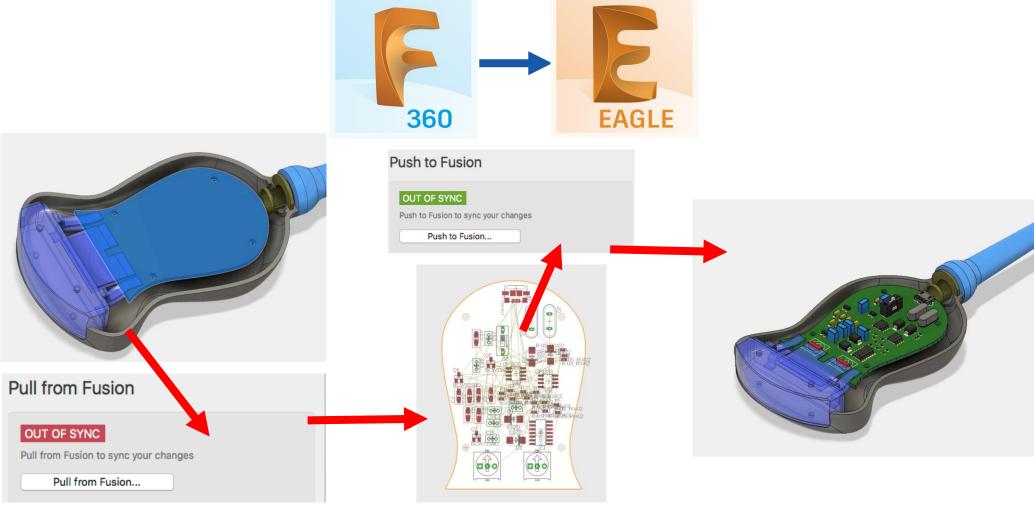
Fusion to Eagle





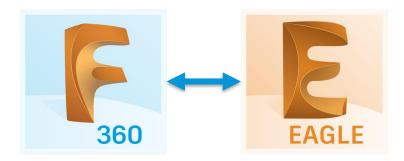


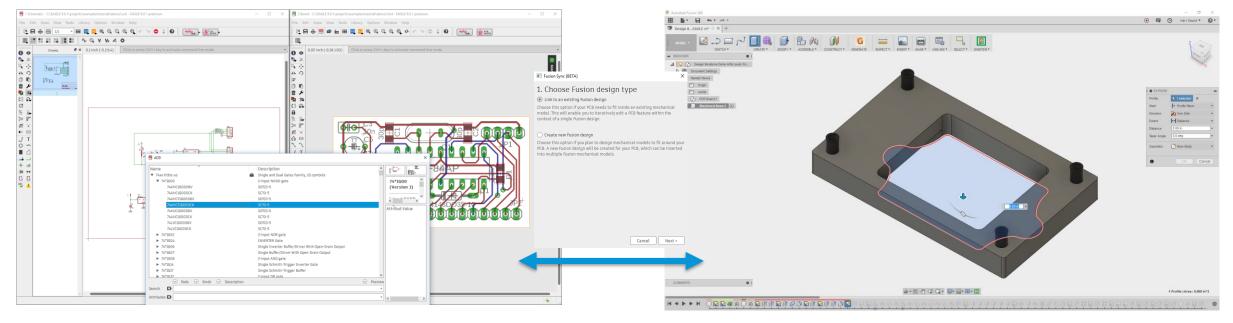
Fusion to Eagle



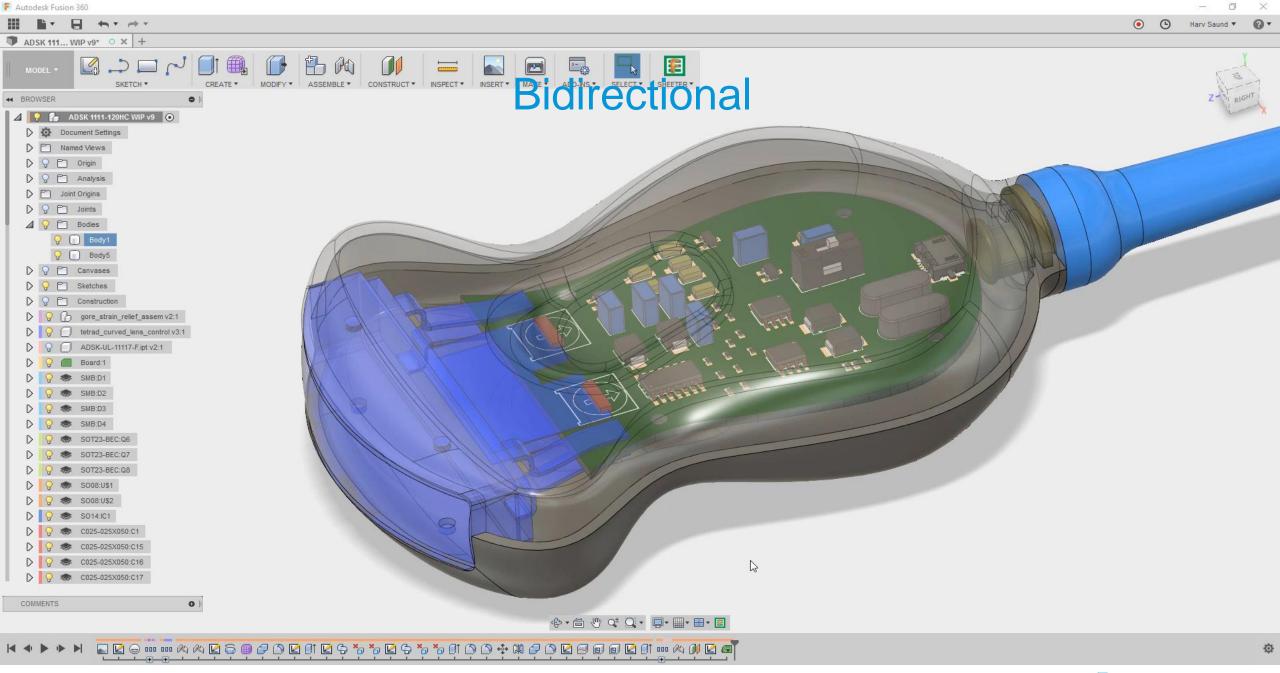


Bidirectional



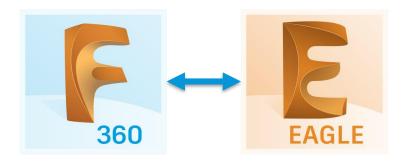


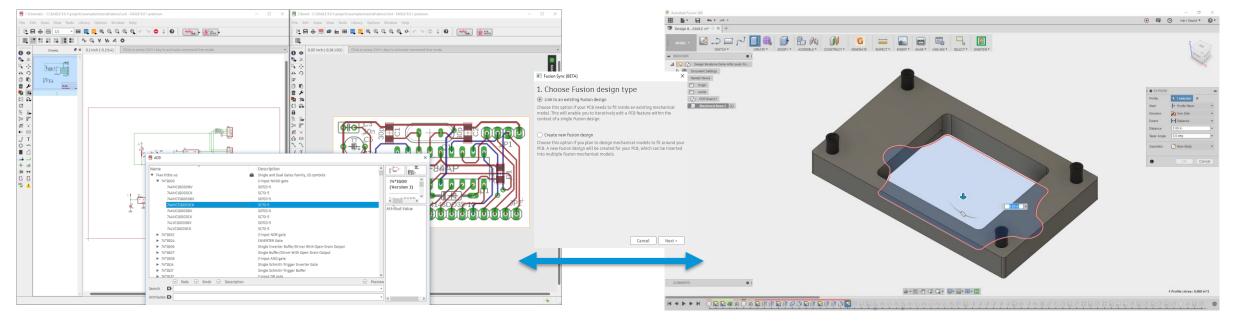






Bidirectional



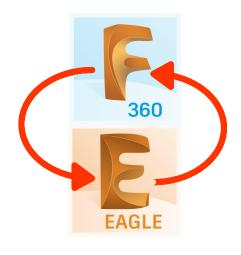


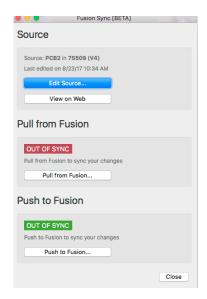


Summary



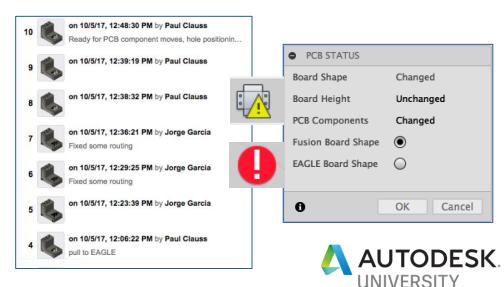
Advantages of integrated ECAD and MCAD







- The electrical, mechanical, and manufacturing teams can work with a single Fusion 360 design and EAGLE board file
- Less file conversions
- Communication! Comments!





Make anything.

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