AUTODESK UNIVERSITY

Smart design of mechanical components and PCBs in a seamless workflow

Melanie Thilo
Technical Specialist

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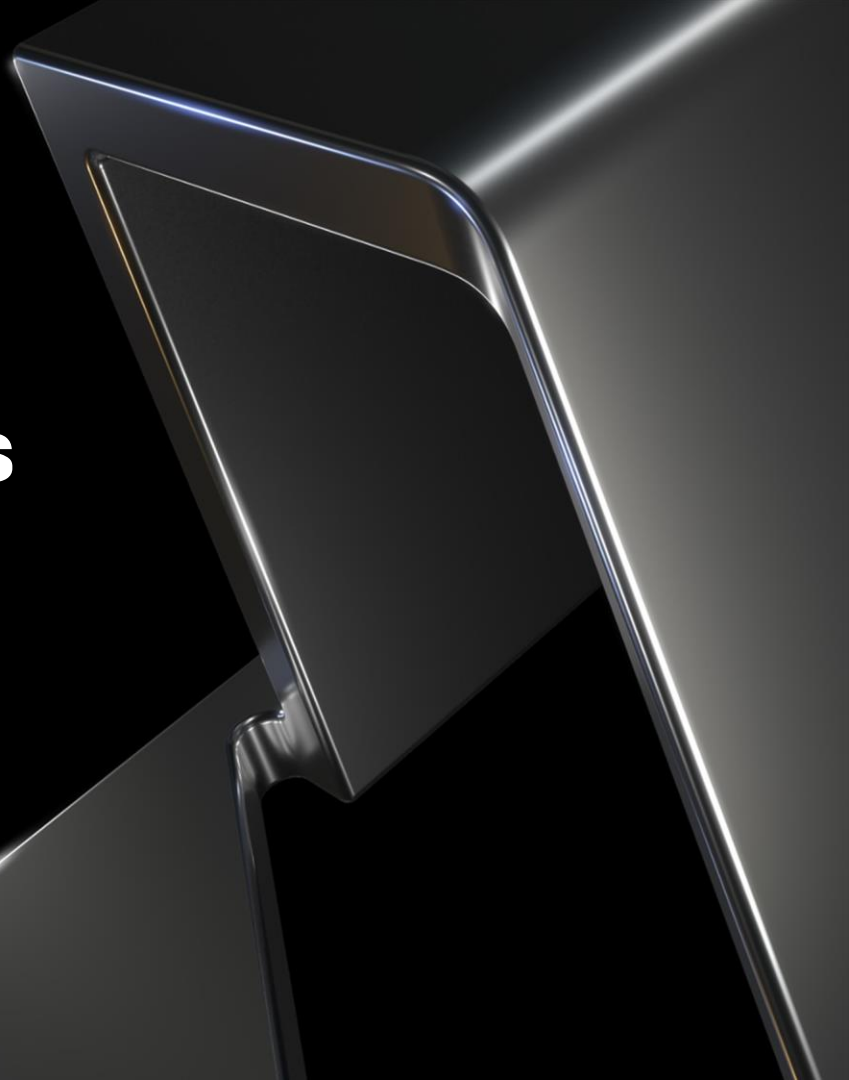
Fusion 360 Community Specialist



About us

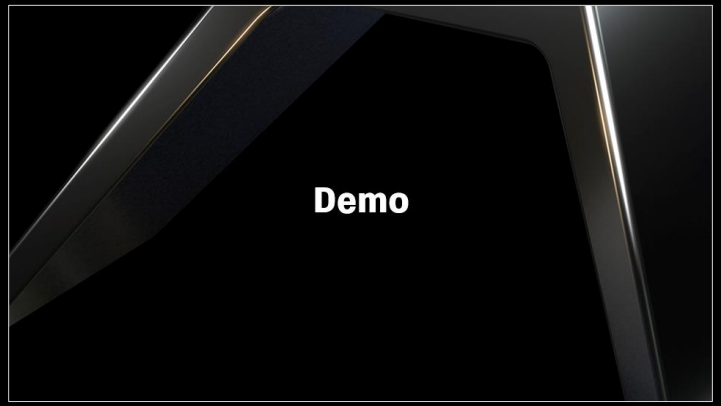
Melanie Thilo

- Role in todays Demo: Mechanical Design Engineer

Richard Hammerl

- Role in todays Demo: Electronics Engineer

Agenda



Design Challenges

The integration of
mechanical and electrical systems
is traditionally challenging.
When it comes time to
integrate both teams
you have a lot of problems.

Mark Lyons
VP Engineering|LifeFuels

What do you need?

- A design environment that meets both the electrical and mechanical requirements of product development
- Be confident that they are working with the most recent version of the electrical and mechanical designs
- Quickly respond to design changes made by other teams

Workflow

Workflow Overview

Mechanical Design

Data Management

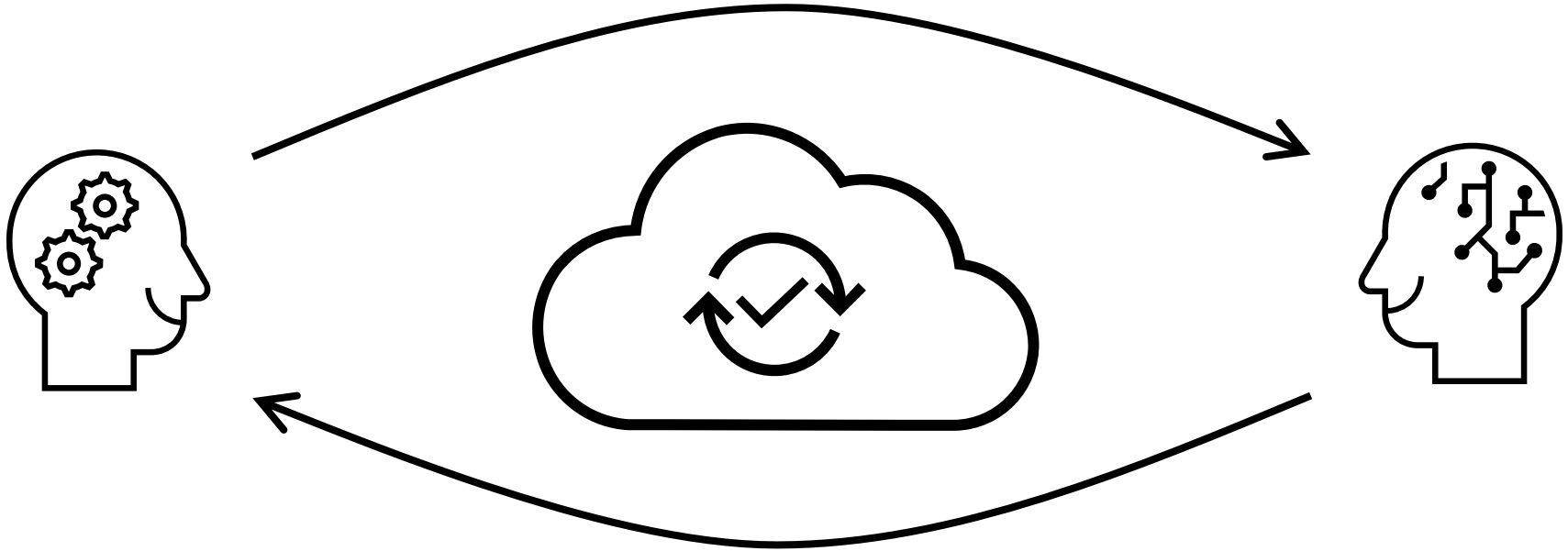
Electronics Design

Demo

Wrap Up

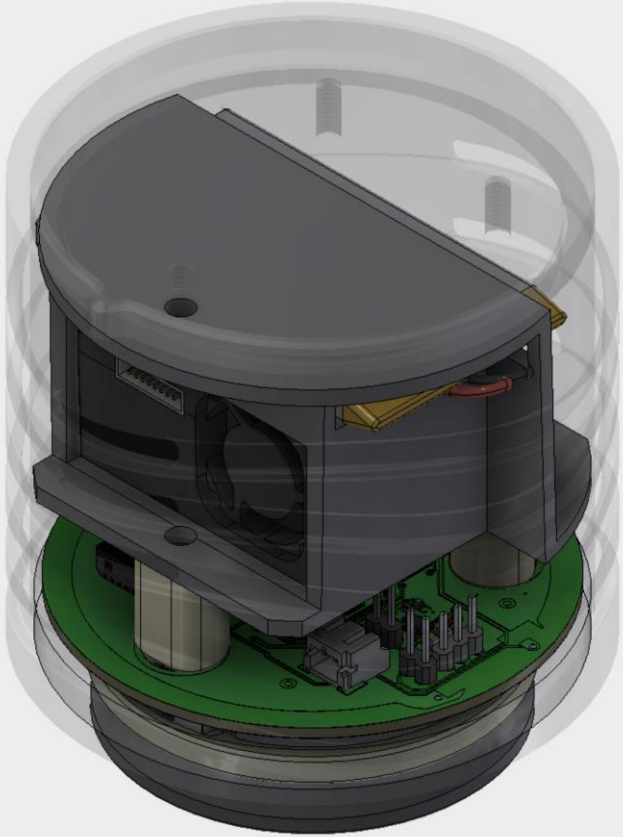
Workflow Overview

Seamless Collaboration of Mechanical Design and Electronics engineers



Key Learnings

- Get the basics of Electronics in Fusion 360
- Implement a seamless collaboration workflow for mechanical and electronic designers
- Assess the best workflow for your use case
- Identify the values of this connected collaboration



AUTODESK® PRODUCT DESIGN & MANUFACTURING COLLECTION

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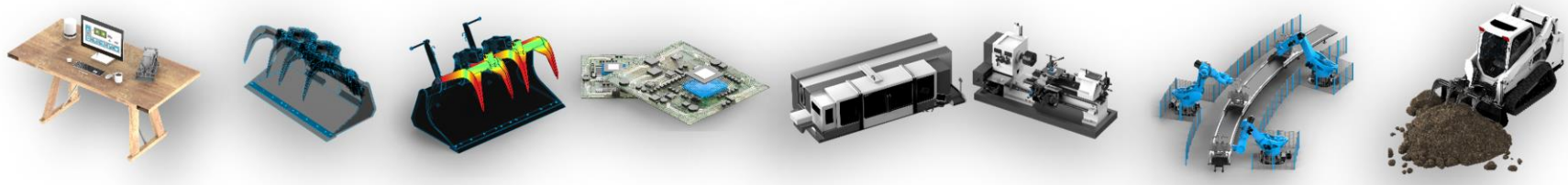

Sales / Bid	Design and Engineering	Production	Sales / Service

Configure to Order	Generative Design	Conceptual Definition	Mechanical Design	Simulation	Tolerance Analysis / Documentation	Mold Tool and Die Design	Factory Design	Machining	Additive Manufacture	Assembly Instructions / Visualization

Data Management

Inventor Professional

Inventor Nastran

Inventor CAM

Inventor Tolerance Analysis

AutoCAD

Inventor Nesting

Factory Design Utilities

Vault Basic

Fusion 360

Navisworks Manage

Recap Pro

3ds Max

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