Moving from Legacy 2D to 3D and Beyond Using Autodesk® Inventor®

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In this hands-on lab, you will learn how to move legacy 2D drawings made in Autodesk® AutoCAD® software into 3D digital prototype models in Autodesk® Inventor® 3D CAD software. This lab also covers how to use the 3D data in Inventor to digitally design, visualize, and simulate, enabling you to easily visualize your products virtually, thus reducing time and money for physical prototypes. We also discuss how to easily share the 3D models across multidisciplinary teams of designers and engineers.
Key learning objectives

At the end of this class, you will be able to:

- Convert legacy 2D AutoCAD drawings into 3D Inventor models
- Use Inventor to create 3D digital prototypes
- Use Inventor to simulate and visualize your 3D models
- Exchange data with different teams
## Agenda

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Introduction

- Better products to market faster and cheaper.
- Optimize productivity - employees, processes, tools
- Need to move legacy 2d to 3d digital models
- Seamless transition with reduced downtime, less errors and easier learning curve.
- How to make this transition easily and the benefits in the design process.
Why 3d? Advantages of moving to 3d

- Single digital model from start-to-finish
- Flexibility to reuse, make design changes smoothly
- Improve time to market with easy design variations
- Simulate, find problems early and fix them
- Reduce and possibly eliminate mistakes
- Easy documentation - changes are bi directional
- Assembly instructions, manuals, brochures
- Downstream opportunities

Increased productivity and reduced cost
What are the possible difficulties in making the move?

- Disrupt current operations
  - Disruption can be minimized
  - Hybrid 2D/3D to full 3D

- Difficult to learn 3D tools
  - We think in 3D
  - Intelligent Learning tools in-product help and animations
  - Productivity tools for common workflows and content center

- Reuse the existing 2D data
  - Inventor 2D to 3D tool
  - Inventor native dwg support
Demo
Product Design Suite - Design, Visualize, Simulate, Manage

Visualization

Concept

Engineering Design

Engineering Documentation

Simulation
Hands on time
Summary

We have seen

- Moving legacy 2d to 3d using Inventor
- Design, Visualize, Simulate and Manage using Product Design Suite

Thanks for attending

For more tips and tricks about Inventor, refer to the Being Inventive Inventor blog