FB1800
Woodworking & Fabrication: Technology Meets Tradition-Unique Methods And Workflows

Steven Widom CTO – Widom Associates support@widom-asssoc.com
www.youtube.com/widomtech

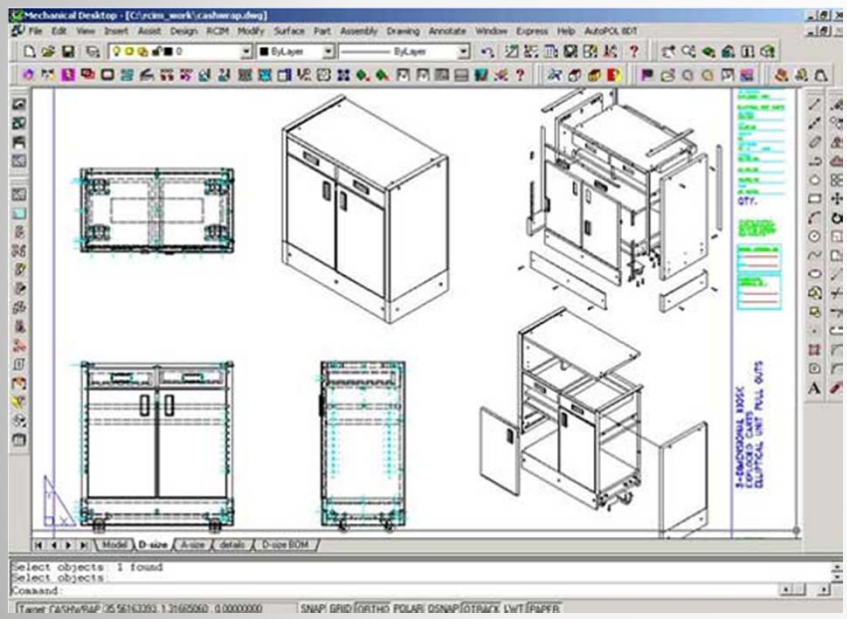
Introduction

- Steven Widom - CTO Widom Associates
  - User - Autodesk products since 1984 “AutoCAD 2.5”
  - Certified Inventor Professional
  - 26 years teaching and consulting in the Autodesk channel
  - 40 years professional woodworker – fabrication furniture / millwork
  - Multi year teaching – fine woodworking – American Craft Council
  - You Tube channel dedicated to the usage of Inventor in the wood trades
  - Speaker Autodesk University , user groups / trade groups
    - Lectures
    - Webcasts

- Guests:

Cim-Tech - Developers of Solid Cim/Router Cim - CAM for woodworkers

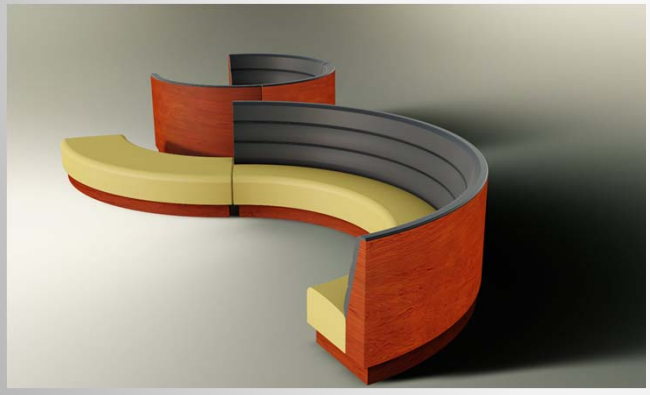
Kenny Belfatto – AE kennyb@cim-tech.com

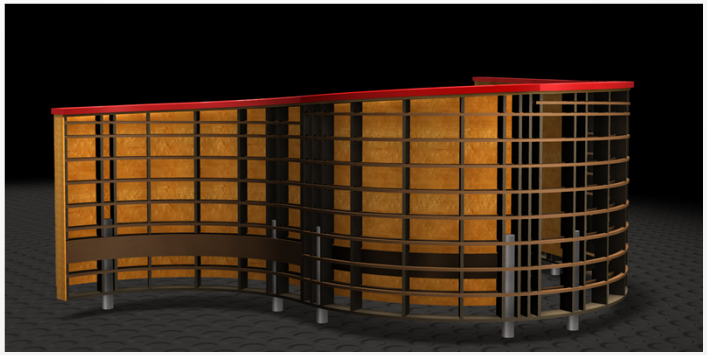


Technology meets tradition - Class objectives:

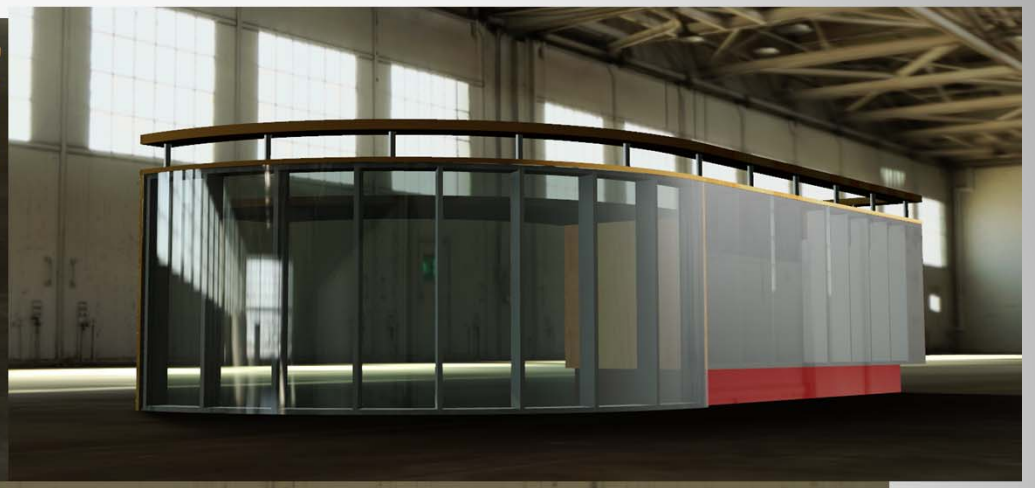
At the end of this class, you will be able to:

- Evaluate the usage of Inventor for many wood and metal fabrication projects
- Evaluate the usage in panel optimization for CNC fabrication
- Determine new methods and workflows that will enable accurate quality design
- Define additional methods of utilizing Inventor on all designs
- Decide if Inventor will be an asset for you and your design / CAM departments
- Define different approaches to manufacturing / Increase speed and efficiency
- Realize ease of use of Inventor / utilizing a single truth model





Technology meets tradition - Class objectives:



Technology meets tradition - Class objectives:

- Modeling techniques for woodworking
- Joinery or no joinery
- Development for approval / before 3d fabrication
- Assignment of materials – solid stock – plywood – grain Direction
- Treatment of edge conditions – Edge Banding
- Cut list / bill of materials - exporting to other applications / MRP
- Assignment and placement of hardware & joinery – the full model
- Ilogic for change & standardization
- Development software
- Standardization in all aspects
- Sharing of data
- Cross application workflows
- Developing the truth model
- Inventor directly to CAM

Technology meets tradition - Class objectives:

Cut list bill of materials

Woodwork BOM

Product View | Rename Configurations | Setup

BOM Management

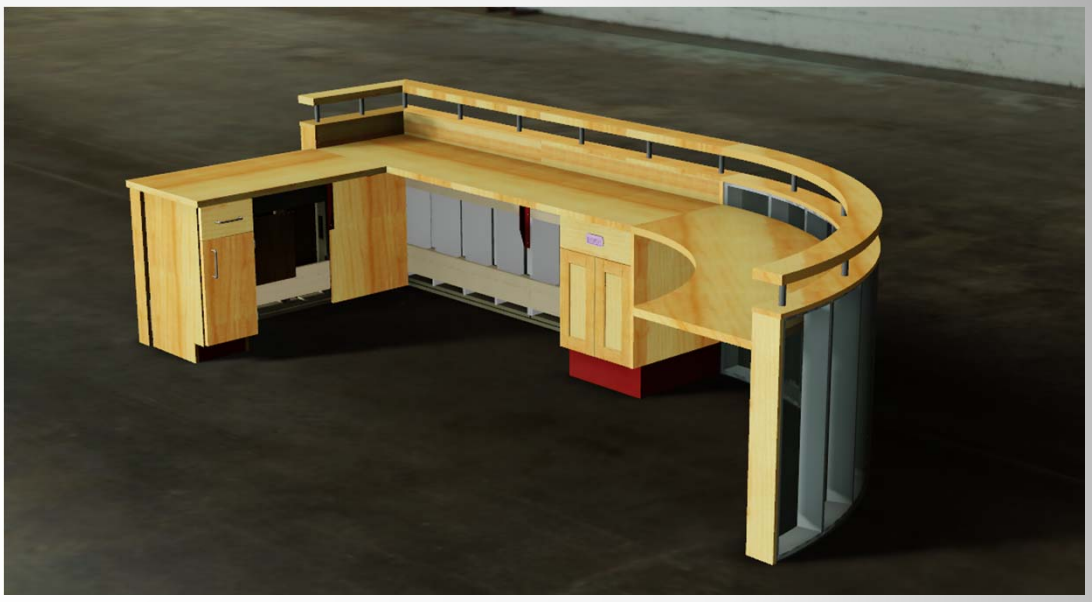
Bom Title

Order code: Cabinet Right
Order name:
Customer:
Designer:

Code	Final code	Name	Final name	Qty	Length	Width	Thickness
Cabinet Right	Cabinet Right			1			
Top Draw	Top Draw			1			
Back Panel	Back Panel			1	24 3/4 in	17 in	1/2 in
Bottom	Bottom			1	16 13/16 in	16 1/2 in	3/4 in
Floating Shelf	Floating Shelf			1	16 5/8 in	16 1/4 in	3/4 in
Intermediate Stretche	Intermediate Stretc...			1	16 1/2 in	4 in	3/4 in
Side Left	Side Left			1	24 3/4 in	17 7/8 in	3/4 in
Side Right	Side Right			1	24 3/4 in	17 7/8 in	3/4 in
Top Stretcher Back	Top Stretcher Back			1	16 1/2 in	4 in	3/4 in
Top Stretcher Front	Top Stretcher Front			1	16 1/2 in	4 in	3/4 in
Drawer sliders [20 kg] L+R 350	Drawer sliders [20 k...	Drawer sliders [20 kg] L+R	Drawer slid...	1			
Pocket Assembly	Pocket Assembly			2			
shel support-24	shel support-24			2			
CONNECTING BOLT L34	CONNECTING BOLT...	CONNECTING BOLT L34	CONNECTI...	6			
MINIFIX CAM D15 H18	MINIFIX CAM D15 H...	MINIFIX CAM D15 H18	MINIFIX CA...	6			
Minifix Cover Cap	Minifix Cover Cap	Minifix Cover Cap	Minifix Cov...	6			
PHP D5	PHP D5	Plate holder bushing	Plate holder...	12			
Plate holder pin 5x16mm	Plate holder pin 5x1...	Plate holder pin 5x16mm	Plate holder...	2			
WOOD PIN 8x30	WOOD PIN 8x30	WOOD PIN	WOOD PIN	18			

Modeling Techniques - Standards

Solid body modeling
Bottom up modeling
Top down modeling
✓ *Hybrid – solid body, adaptive, top down*



Creative fabrication
Negative shape drilling & cutting
Material assignment & grain direction
Edge Banding
Ilogic development
Standards development
32mm development
Hardware insertion for the entire model
Attaching any library item / Super Imates
Universal tools

Technology meets tradition - Class objectives: CAM Integration

Autodesk to Acquire Delcam for $276 Million

By Karen Koenig | Posted: 11/08/2013 9:45AM

Share 0 | Like 1 | Tweet 0 | Google + 0 | Email 1 | PRINT THIS

Delcam's products for the woodworking industry include ArtCAM CADCAM software.

SAN RAFAEL, CA - 3D software firm Autodesk Inc. said it will acquire Delcam Plc for $276 million (£172.5 million). Delcam is a leading provider of CADCAM software to the woodworking and other industries, with products that include ArtCAM, PowerMILL and SolidWorks.

Autodesk (NASDAQ: ADSK) issued the announcement Nov. 7. Autodesk said it plans to use its non-U.S.-based cash for the Delcam (LON: DLC) transaction, which is expected to close the first quarter of 2015.

"Today we are taking an important step on our path toward delivering a better manufacturing experience," Carl Bass, Autodesk president and CEO, said in a statement. "Together Autodesk and Delcam will help further the development and implementation of technology for digital manufacturing."

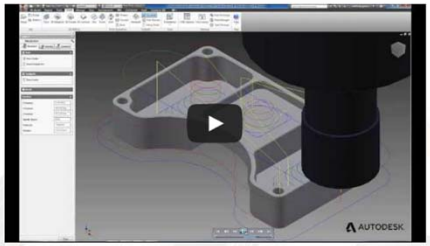
The move expands the California-based Autodesk's offerings to the global manufacturing marketplace. Headquartered in Birmingham, UK, Delcam has more than 30 offices worldwide, approximately 600

Autodesk Inventor HSM

Autodesk® Inventor HSM™ Express is a free CAM solution that is seamlessly integrated inside the design environment of Autodesk® Inventor® software.

The integration allows Inventor users to take advantage of the workflows and tools they expect when programming CNC toolpaths for machining projects.

GET INVENTOR HSM EXPRESS



FB1800
Woodworking & Fabrication: Technology Meets Tradition-Unique Methods And Workflows - Thank you for attending!

Steven Widom CTO – Widom Associates support@widom-asssoc.com
www.youtube.com/widomtech