

# FINAL DRAFT

Engineering Change Order 0063, Revision B, Release Date: July 2007, Released by CC

*more news you can use from Adraft*

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## KEYS TO A SUCCESSFUL TECHNOLOGY DEPLOYMENT

After being in business for almost 20 years, I am asked by many people to talk about our successes. Success with respect to business, customers, vendors, and even life. The interesting thing about success is that most of us simply move on to our next project and don't bother to examine why we were successful. Personally, I learn from failure. Failure, or not reaching the agreed upon goal, forces me to contemplate the reasons why we didn't succeed, and hopefully learn to not make the same mistakes again.

There are 3 basic ingredients to successful implementations of technology. The first is to understand *and accept that your organization is about to go through a cultural change*. Cultural change is perhaps the most difficult transition that any company will go through. Managing this change is unlike managing any other aspect of your business because change is personal. Once you understand this concept you can prepare your organization for this shift. The more people that understand and buy-in to this cultural shift, the better chance you have for success.

*The second ingredient of success is time*. Change takes time and impatience will almost always lead to failure. Again, communication to the organization is key to creating a patient atmosphere. Projects will get sidetracked by your “real” business. My rule of thumb is to take your best estimate of a project length and double it. It is always better to complete a project ahead of schedule, rather than explaining delays.

The third ingredient is the most important in my opinion; *Executive sponsorship and commitment*. Ever heard of a Project Charter? A project charter is a one-page executive summary that outlines the project, roles and responsibilities, general timelines, and is always signed by an executive. It is used by best-in-class organizations to inform the executive team about the scope of a technology project. Without buy-in and commitment from an executive, most projects will not succeed. An executive sponsor is typically instrumental in running interference for your project team and stands by decisions that are made. Remember that executives view the world



from a business standpoint, not a technology standpoint.

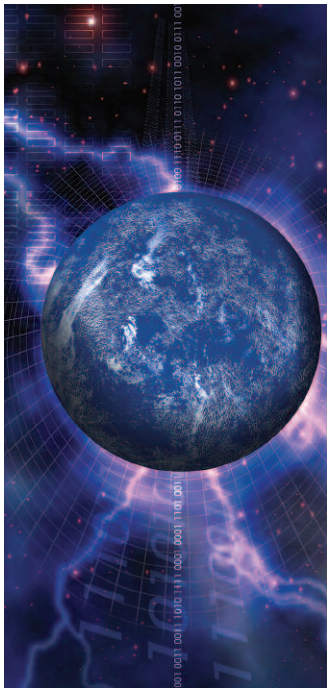
As the world changes, so must our organizations. Understanding and laying a foundation for success in order to reach your determined goals is key to insuring a profitable and long-term future. Keep these three ingredients in mind during your next implementation of technology and you will be heading toward a successful and smooth deployment.

—julia

If you would like more information on Project Charters and their uses, please contact me, or visit [www.pmi.org](http://www.pmi.org)

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## INVENTOR, THE VAULT, FUNDAMENTAL PHYSICS, AND THE MYSTERIES OF THE UNIVERSE?



Just think about it, Inventor and the Vault are unwrapping the mysteries of the universe. Well, not alone...scientists have a small role in it too. Scientists and engineers from the LEPP (Laboratory for Elementary Particle Physics) lab at Cornell University are working to unravel the mysteries of basic physics, including some of the mysteries of space. For those of you who know the Adraft team, you may be thinking of the mysteries of Mike Space. I do not think that we will ever figure those out.

All kidding aside, Adraft had the opportunity to assist the LEPP lab at Cornell with implementing Data Management for the design and Engineering team. Solid and secure Data Management was a requirement to qualify for a potentially massive project. That large project is the Large Hadron Collider (LHC) Project. The LHC project is the biggest scientific project ever and includes many different research stations, including Cornell! This project will be using superconducting

magnets to smash matter hard enough to break down particles. They are smashing atoms! The Cornell lab has focused on studying nature's fundamental particles and the laws that govern them. These studies shed light on questions like: How did the universe evolve? What is the nature of time and space? What is mass, truly? They have an underground accelerator (used to break apart atoms) that is so large, approximately 1/4 of it runs under the track field.

The LHC project will be involved with trying to test different theories about the universe, energy, and particle physics. For example, they are trying to test the Superstring Theory. Here goes my lame way of describing this theory ...research suggests that there may be  $10^{500}$  universes that are each ruled by different laws. If there are different laws associated with each of these universes, then the truths that Newton, Einstein, and others would only hold true for our universe. They are also hoping to produce the Higgs boson

particle. If you are into this type of thing, this particle is known as the "God Particle" and has only been theorized at this point.

The Cornell LEPP lab is using Inventor to model the parts of the machinery and tools that actually do the atom smashing. They use the Vault data management environment to manage the design process and allow different scientists and engineers to share and work on the same data sets. Adraft appreciated the chance to work with the Cornell lab and we wish them all the luck in the universe(s?).

If you would like to read more about this topic, here are some links that may be of interest:

- LEPP:  
<http://www.tc.cornell.edu/About/Pages/lepp.htm>
- LHC Project:  
[http://en.wikipedia.org/wiki/Large\\_Hadron\\_Collider](http://en.wikipedia.org/wiki/Large_Hadron_Collider)

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## ADRAFT WELCOMES:

As part of Adraft's continuing expansion, you will find a new addition to the *Final Draft*. Adraft will be highlighting a new customer with unique requirements or approaches.

Adraft would like to welcome BOC Edwards Pharmaceutical Systems Inc. located in Buffalo, NY.

Increasing globalization has led BOC Edwards Pharmaceutical Systems, a leading supplier of pharmaceutical freeze dryer

and aseptic packaging equipment and related products and services to the world's most advanced industries, to understand that they needed to not only control their engineering documentation, but also be able to share and reuse that data across several divisions located in all Geo's. BOC has chosen Autodesk Productstream Replicator to support this effort, and Adraft consulting services to insure that the requirements are captured and business goals are met. The company is currently using Autodesk Inventor and is now ready to manage and share their data

with their overseas sites. Both Adraft and BOC Edwards are predicting that the entire Autodesk solution will provide further time-saving benefits with an effective data management strategy to allow BOC design teams to work together no matter where around the world those teams are located.

Autodesk Productstream provides rich out-of-the-box tools as a means to organize, manage, and automate key design and release management processes. Productstream also delivers the manufacturing markets best practices to your design teams. It does

this all while avoiding the complications and expense traditionally associated with other product data management systems.

On behalf of the Adraft team, we welcome BOC Edwards and look forward to reporting on your future success!

If your organization would like to be highlighted in a future edition of *Final Draft*, please contact your account manager. We always like showing off our customer's vision and success.

**Dave Hicks**  
([dave.hicks@adraft.com](mailto:dave.hicks@adraft.com))

# AUTODESK INVENTOR LT – TECHNOLOGY PREVIEW

(Adapted from Autodesk Labs Website)

Autodesk® Inventor LT™ software is a new member of the Autodesk® Inventor™ family of software products. It helps manufacturers create, share, and edit 3D part designs and DWG™ drawings to satisfy customer and supplier requirements in today's complex global supply chain.

Inventor LT helps reduce the headaches of working in an environment with many disparate computer-aided design (CAD) systems by enabling you to import, export, create, and modify 3D part models in leading native and neutral file formats to meet the increasing need for communicating in 3D.

## Inventor LT delivers:

- Multi-CAD translation capabilities for leading 3D file formats
- 3D part model creation and editing
- Automated mechanical drawings
- Genuine DWG interoperability
- Photorealistic rendering

## Who is this preview meant for?

Professionals in virtually any manufacturing-related industry will find that Inventor LT is ideal for many of their design software needs:

- Manufacturing professionals who need to create, share, and edit 2D and 3D part design data in a variety of formats to satisfy customer and supply chain requirements
- Manufacturing professionals who want to improve their time-to-market and product

quality by completing new part designs in 3D, and then documenting those designs as DWG drawings that are interoperable with their AutoCAD® DWG drawings

- Manufacturing professionals who face new part design challenges that require 3D visualization, analysis capabilities, complex shapes and surfaces, entire families of parts from one basic design, and more
- Manufacturing professionals who need to create stunning, winning client presentations and marketing collateral directly from digital design data and before even the first physical prototype is built

## What are the key similarities and differences between Inventor LT and Inventor?

Inventor LT provides the same 3D *part* modeling, import/export, documentation, and rendering capabilities available in the Autodesk® Inventor™ 2008 product line. Since Inventor LT utilizes similar technology and user interface as Inventor 2008, all the files created and 3D design skills learned in Inventor LT are fully transferable to Inventor.

Key capabilities available in other products in the Inventor product family that are *not* available in Inventor LT include, but are not limited, to the following:

- 3D assembly modeling
- Specialty design and simulation tools such as sheet metal and dynamic simulation
- Inclusion of AutoCAD® Mechanical
- Inclusion of Autodesk® Vault for data management
- Customization via application programming interface (API) access or third-party add-in applications

The matrix below shows a more detailed feature comparison.

Sharing files with the Autodesk Inventor 2008 family of products is seamless. And with innovative DWG TrueConnect

*"Inventor LT" continues on page 4*

Features and Capabilities	Autodesk® Inventor™ LT Technology Preview	Autodesk® Inventor™ Suite 2008	Autodesk® Inventor™ Professional 2008
3D Part Modeling	•	•	•
Automated 2D Drawing Views	•	•	•
Automated 2D Drawing Updates	•	•	•
Copy and Paste from AutoCAD® Software	•	•	•
DWG™ TrueConnect (DWG Interoperability)	•	•	•
Neutral 3D Multi-CAD Import/Export	•	•	•
Native 3D Multi-CAD Translation*	•	•	•
Inventor Studio (Photorealistic Renderings)	•	•	•
DWF™ Publishing and "Roundtrip"	•	•	•
Includes Autodesk® Design Review	•	•	•
3D Assembly Modeling		•	•
Sheet Metal Design		•	•
Content Center (Standard Parts Library)		•	•
Dynamic Simulation			•
Stress Analysis (FEA)			•
Tube and Pipe Design			•
Cable and Wire Harness Design			•
Includes AutoCAD® Mechanical		•	•
Includes Autodesk® Vault		•	•
Customization and Third-Party Add-in Compatibility		•	•
Ease of Use	•	•	•
Tutorials and Skill Builders	•	•	•
Advanced Help System	•	•	•

*"Inventor LT" continued from page 3*

technology, Inventor LT delivers industry-leading DWG interoperability with AutoCAD and AutoCAD LT® software.

Inventor LT also includes Autodesk® Design Review and can publish 2D and 3D DWF™ files. Markups made to 2D DWF files can easily be

"round-tripped" back to the original Inventor drawing, thus streamlining the design review process with extended design teams.

technical problems to [labs.inventorlt@autodesk.com](mailto:labs.inventorlt@autodesk.com).

Once you download and activate the software, Inventor LT Technology Preview will run until May 1, 2008.

Inventor LT supports a wide variety of common 3D and 2D part-level file formats:

Supported Part Formats	Open	Save
Inventor (.ipt)	•	•
* UG-NXTM (.prt)	•	
* Parasolid™ (.x_t, .x_b)	•	•
* Pro/ENGINEER® (.prt)	•	
* GRANITE® (.g)	•	•
STEP	•	•
IGES	•	•
SAT	•	•
DWF		•
JT		•
STL		•
Inventor drawings (.idw)	•	•
DWG drawings	•	•
DXF™ drawings	•	•

\* Available with separate free download from Autodesk Labs

Inventor LT does not support Inventor assembly models (IAM), Inventor assembly drawings (IDW or DWG), Inventor sheet metal parts (IPT), Inventor presentation files (IPN), or assemblies of native and neutral 3D formats.

Be aware that Inventor LT is a Technology Preview and therefore is not supported like the for-purchase products in the Inventor product line. However, Autodesk wants to hear about any problems that you may have with the product. Your reporting helps them make better products for you. Please report

Inventor LT is not currently available for purchase. Should Inventor LT become available for purchase, Autodesk anticipates that the suggested retail price for a new license of Inventor LT will be approximately US\$999, and customers who participate in the Technology Preview will receive special purchase incentives.

For a more complete overview of the Inventor LT Technology Preview, visit Autodesk Labs at [http://labs.autodesk.com/technologies/inventor\\_lt/](http://labs.autodesk.com/technologies/inventor_lt/)

## The Guy at the End of the Mouse IS INVENTOR "STEALING" FROM AUTOCAD?

The guy at the end of the mouse returns this quarter to discuss some of Inventor's "little" improvements. It seems that with every new release we always get all of the big stuff that everyone is talking about, but let's look at just one of the little things that make 2008 a "kinder and gentler" Inventor, or, a more AutoCAD-like Inventor.

Command aliases and keyboard shortcuts have been an AutoCAD staple from day one, so it makes sense that Inventor should also have the ability to start any command with one or two keystrokes, now we can more easily. Now here's a little secret, Autodesk Inventor ships with a set of default multi-character command aliases, which are not loaded by default. To load them, just RMB (that's right mouse

button, or right click, for those of you over 40) on any toolbar button, choose "customize". Go to the "Keyboard" tab and check "Use default multi-character Command Aliases." Click the "OK" button to close the "Customize" dialog box. Now notice in your panel bar that, as long as you have "Display text with icons" turned on, you will see the shortcuts listed to the right of the panel bar buttons. Also, we can copy all of these to the Windows clipboard by picking "Copy to clipboard" from the bottom of the "Keyboard" tab in the "Customize" dialog box and paste them into an Excel spreadsheet for reference. I bet you didn't know that Inventor has 784 commands! Very Niiice! (thanks Borat).

Some other settings that will work well with this are:

**"Show command prompting" (Dynamic Prompts)**– When this box is checked, command prompts are displayed in a tooltip near the cursor.

**"Show autocomplete for alias command input"**– When this box is checked, the Autocomplete list box is displayed when an ambiguous or incomplete command is entered. (Note: Autocomplete has no affect on the user interface when Show command alias input dialog is not checked.)

**"Show command alias input dialog"**– When this box is checked, the command alias input dialog box appears next to the cursor when you

type the first character of a command name.

These can be turned on by going to "Application Options" [OP] in the Tools pull down menu under the general tab, tooltip appearance.

Of course you can add and change any of these aliases, but you guys are smart and can figure out how to do that, so go ahead.

So is Inventor trying to copy AutoCAD? Maybe a little, but they say "imitation is the most sincere form of flattery!"

Well, I've got to go hit a large bucket or two, see you on the range.

**Alex Hatziemmanuel**  
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## AUTOMATING TASKS IN AUTODESK INVENTOR WITH VBA

Have you ever wanted something to occur automatically in Autodesk Inventor? Have you ever uttered the following phrases?

“It would be nice if every time I printed this would happen.”

Or

“I wish that would happen every time I saved the file.”

Well, these things are possible by creating some simple macros in VBA. VBA stands for Visual Basic for Applications. It is a programming tool that is provided inside almost every Autodesk product. VBA is related to its stand-alone programming brother VB (Visual Basic) except that is used to create tools and functions inside of an application, where VB can be used to create a stand-alone application if desired.

### Automatic Macros

Automatic macros are macros that are automatically run when certain events happen within Autodesk Inventor. An automatic macro is like any other macro except for its name. To create an automatic macro, just name a macro so it contains any of the automatic macro names. Depending on the name of the macro, it will be automatically run by Autodesk Inventor if the associated event occurs. Automatic macros are only supported within document projects. Macros within the Application or a User Project that use the names below will be ignored as far as running automatically.

Inventor identifies automatic macros by their names. For example, the name for the

macro that will run automatically when the document is opened is “AutoOpen.” Autodesk Inventor allows some flexibility in this naming by only requiring the string to be part of the macro name. For example, the following macro names will be considered auto-open macros: AutoOpen1, AutoOpen2, NewAutoOpen, autoopen3, or TestAutoOpen4. From these examples you can see that additional characters can precede or be appended to the auto macro name. In addition, it is not case-sensitive. Because of this flexibility you can create multiple automatic macros for a single event. If there are multiple macros for an event, their order of execution is arbitrary.

Autodesk Inventor runs automatic macros whenever the associated events occur. If the user presses the Shift key when the event occurs, the automatic macro will not run. For example, if the user presses the Shift key while opening a document that contains an AutoOpen macro, the macro will not run.

### AutoOpen

This macro is run automatically when the document it is contained within is opened.

### AutoNew

This macro is run automatically when a new document is created from a template. For this macro to be used, it must exist within the template file.

### AutoSave

This macro is run automatically whenever the document it is contained within is saved.

### AutoClose

This macro is run automatically whenever the document it is contained within is closed.

### AutoEdit

This macro is run when parts/sub-assemblies are opened or edited.

### Example

The following example is used

in the Sheet Metal template to calculate the bounding box of a flat pattern. This calculation will occur at every save. For this code to run automatically, it needs to be placed in the DocumentProject of the template. See the image below for reference.

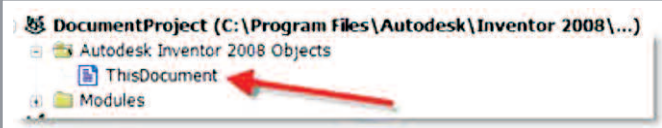
### Conclusion

Try it out. You could see a dramatic increase in your productivity by simply automating the littlest of things. For more

VBA information, go to the “Programming Help” section located under the “Help” pull-down in Autodesk Inventor.

If VBA programming is a little bit beyond your comfort level, contact us with your ideas. We would be more than happy to suggest some strategies, or assist you in creating the code.

**Mike Space**  
(mike.space@adraft.com)



**Code**

```
Public Sub AutoSave()
    Dim oFlatPattern As FlatPattern
    Set oFlatPattern = ThisDocument.ComponentDefinition.FlatPattern
    ' Check to see if the flat exists.
    If Not oFlatPattern Is Nothing Then
    ' Get the extent of the face.
        Dim oExtent As Box
        Set oExtent = oFlatPattern.Body.RangeBox
    ' Extract the width and length from the range.
        Dim dLength As Double
        Dim dWidth As Double
        Dim dlenghtx1 As Double
        Dim dlenghtx2 As Double
        Dim dlengthy1 As Double
        Dim dlengthy2 As Double
        Dim darea As Double
        dlenghtx1 = oExtent.MaxPoint.X
        dlenghtx2 = oExtent.MinPoint.X
        dLength = dlenghtx1 - dlenghtx2
        dwidthy1 = oExtent.MaxPoint.Y
        dwidthy2 = oExtent.MinPoint.Y
        dWidth = dwidthy1 - dwidthy2
        darea = dWidth * dLength
    ' Convert these values into the document units. This will result in
    strings that are identical
    ' to the strings shown in the Extent dialog.
        Dim oUOM As UnitsOfMeasure
        Set oUOM = ThisDocument.UnitsOfMeasure
        Dim strWidth As String
        Dim strLength As String
        Dim strArea As String
        strWidth = oUOM.GetStringFromValue(dWidth,
kDefaultDisplayLengthUnits)
        strLength = oUOM.GetStringFromValue(dLength,
kDefaultDisplayLengthUnits)
        strArea = oUOM.GetStringFromValue(darea,
kDefaultDisplayLengthUnits)
    ' Use this area to do whatever you want with the strings: strWidth,
    strLength, strArea
        End If
    End Sub
```

## BECAUSE BETA IS SO PASSÉ

(Adapted from Autodesk Labs Website)

Autodesk Labs is home to innovative new technologies — spanning everything from drivers and plug-ins to brand new applications. What you'll find here today are technologies created by the development teams at Autodesk, ideas that have been percolating in the minds of engineers trying to solve customer problems. Before Autodesk Labs, many of these technologies were put on a shelf and lost to the public forever. Others may have made it into fully released products without benefiting from user feedback in the early stages of development.

Autodesk Labs aims to provide the critical bridge from the world of traditional product development cycles to the world of community driven innovation. User feedback from Labs helps drive Autodesk's future product releases. Many of the technologies posted here are in the alpha or pre-alpha stages. The intent is to gather

user community feedback and reactions to the features and products that are still in their early stages. Through this process we hope the winners rise to the top and become features in existing products or release as entirely new products. We also hope the losers fall to the bottom, minimizing the risk of releasing products that don't meet customer needs.

The best way to learn about Autodesk Labs is to start experimenting yourself. Check out the different technologies available on Autodesk Labs, participate in the discussion groups and blogs, and be sure to register to receive email updates when new technologies are posted. Check out what is there now:

### Project Freewheel

The Project Freewheel service is both a Web site where you can type in a URL for interactive viewing, and a Web service that allows you to embed an interactive viewer in your own HTML pages. Today it provides technology to view a DWF™ file on a Mac® computer, a PDA, a Cell Phone, on a Windows® or Linux® platform,

or in Microsoft® Internet Explorer®, or Firefox® browsers. It also provides technology to embed a DWF in your own web page (HTML) that visitors can view without installing any software.

### Autodesk Inventor LT – Technology Preview

Autodesk® Inventor LT™ makes it easy to create, share, and edit 3D part models from different CAD systems. Inventor LT helps reduce the hassles and headaches of working in an environment with many disparate CAD systems. It allows you to quickly import, export, create, and modify 3D part models in many common file formats to meet today's increasing need for communicating in 3D. (For a more detailed review, please see the Inventor LT article in this newsletter.)

### 2D to 3D Tool for Autodesk Inventor

Save valuable time creating 3D models of parts that were designed in 2D with this add-in utility. The 2D to 3D Tool streamlines the preparation of 2D views by automatically rotating drawing views onto orthogonal sketches.

### Feature Recognition for Autodesk Inventor 11

Use this application to convert neutral 3D CAD (STEP, SAT, or IGES solids) models into fully featured Autodesk® Inventor™ 11 models.

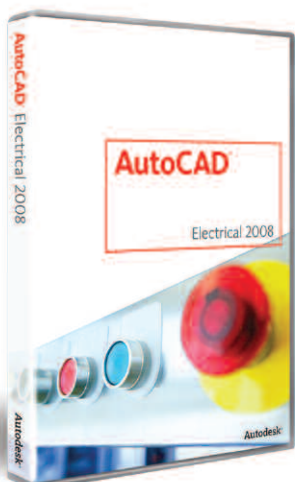
Feature mapping can be executed automatically or interactively as needed to maintain design intent.

### Translator Add-ins for Autodesk Inventor and Autodesk Inventor LT

*Parasolid*, *UG-NX™*, *Pro/ENGINEER* and *GRANITE* With this technology preview, you can streamline projects that require opening files from vendors or customers in native formats. You can easily exchange data between Autodesk Inventor, UGS, and Pro/ENGINEER by importing and exporting Parasolid, import UG-NX™, import and export GRANITE, and import Pro/E directly with Inventor.

### And More...

Visit <http://labs.autodesk.com> and read more about these exciting technology previews.



## AUTOCAD ELECTRICAL 2008: NEW AND IMPROVED DIALOGUE BOXES FOR INSERTING SCHEMATIC AND FOOTPRINT COMPONENTS

“Why can't I store more than six symbols from the list of recently used symbols in the insert/edit component dialogue box?”

“Why can't I hover my cursor over an image and not receive a tool tip in the insert/edit component dialogue box?”

“I hate wasting time spent on trying to find a symbol because of the lack of a menu tree structure in the insert/edit component dialogue box.”

I have listened to all of these complaints, and more, concerning the dialogue boxes for the insert component utilities inside of AutoCAD

Electrical. As a user myself, I had to agree with the masses. The interface for these utilities was not the worst I've ever seen, but it could use some improvement.

Once again Autodesk has listened to its customer base and made some fantastic

*“Electrical 2008” continues on page 7*

"Electrical 2008" continued from page 6

enhancements to these utilities. The interface now allows me to quickly and easily locate any symbol I want to insert into my drawing. I highly recommend upgrading to AutoCAD Electrical 2008, if you have not done so already. Below is a list of features detailing the enhancements you will find for all of the insert/edit component utilities:

- **Menu tree structure**

Displays the main menu and submenus from which you can freely navigate. Clicking the menus displays the corresponding menu icons in the Symbol Preview window. The menu is created by reading the \*.dat file defined in the Project Properties dialog box.

- **Symbol Preview window**

Displays the symbol icons and submenu icons corresponding to the selected menu. Clicking an icon performs one of the following functions based on the icon

properties as defined in the \*.dat file: insert a component or circuit, display a submenu, or execute a command.

- **Recently Used** Displays the last components inserted during the current editing session. The most recently used icon displays at the top. This list follows the view options setting in the symbol preview window and the total number of icons displayed depends on the value specified in the Display edit box.

- **View** Changes the view display for the Symbol Preview window and Recently Used window. The current view option is indicated with a check mark. Options include: Icon with text, Icon only, or List view.

- **Tooltips** When you move the cursor over an icon, the icon name and block/circuit/command names display as tooltip information.

**Greg Fisher**  
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Engineering Driven  
Enterprise Focused

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## ADRAFT TRAINING STATUS UPDATE

First, I should introduce myself. I am the newest member of the Adraft Team and my name is Kelly Bourne. Part of my job at Adraft is Training Coordination.

One of my first challenges in training coordination that Adraft has to deal with is the transition between software releases. The first obstacle is the training material. We purchase certified AOTC training material, but it is not released exactly when the software is shipped to you, the end user. Depending on the material, it may be available in May, June, July, August, or even September. This puts us in a transition period where we have the new software, no new material, and clients that want training in the newest software quickly to meet their schedule. We can adjust to most situations, but I wanted to let you know where we stand right now. I am going to focus on our regular classes: AutoCAD Level 1, AutoCAD Electrical, Inventor Essentials, and AutoCAD Mechanical. At this point the following books **are available** for classes:

- Autodesk Inventor 2008: Essentials
- Autodesk Inventor 2008: Transitioning from Inventor 11
- Autodesk Inventor 2008: Transitioning from Inventor 11 with Sheet Metal
- Autodesk Productstream 2008: Essentials
- Autodesk Vault 2008: Essentials
- AutoCAD 2008: Essentials
- AutoCAD 2008: Transitioning from 2007
- AutoCAD 2008: Essentials of Customizing AutoCAD
- AutoCAD 2008: Creating and Presenting 3D Models

The following books **are not available** for Adraft to even evaluate yet:

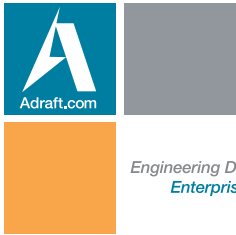
- Autodesk Inventor 2008: Sheet Metal Design
- Autodesk Inventor Professional 2008: Dynamic Simulation and Stress Analysis
- Autodesk Inventor 2008: Advanced Assembly and Machine Design
- AutoCAD Electrical 2008: Essentials (JIC Standard)
- AutoCAD Mechanical 2008: Essential
- AutoCAD Raster Design 2008: Essentials
- AutoCAD 2008: Intermediate

Also, you should know that the Adraft technical crew is taking all 2006 year release software off of our training center computers. We can still teach these courses, with extra coordination, but we need room on the computers for the 2008 releases.

Please remember that we can customize courses for training, whatever your needs are, but we need to manage our labs for the classes that we teach most often. If you have any questions on the timing of some of the classes and or material, please call your rep or me and I will do my best to answer your questions or track down a solution.

Thanks —Hopefully I will see you in for a class soon!

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Manufacturing Specialist

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Authorized Training Center

**Autodesk**  
Authorized Value Added Reseller

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## ADRAFT PUSHING FOR AUGI USER GROUPS IN BUFFALO, SYRACUSE AND BINGHAMTON AREAS!

A few years ago Adraft found that there was a need for a Manufacturing Users Group in the Rochester area. Last year, during our expansion to the Buffalo, Syracuse and Binghamton areas Adraft noticed that there was not a representative Users Group in these areas. Adraft has now partnered with AUGI (Autodesk User Group International) to get user groups (AMUG... AUGI Manufacturing User Groups) started in all three areas.

### What is AUGI?

AUGI is the Autodesk User Group International, officially recognized by Autodesk as

representing the Autodesk user community. AUGI has two prime directives. The first is to assist its members by presenting programs and information that will enhance their use of Autodesk products. The second is to deliver the voice of the user community to Autodesk, thus assisting Autodesk in product development and giving users a say in the process.

### What is an AMUG?

AUGI Manufacturing User Groups (AMUGs) are local AUGI chapters with a common mission: to provide support for Autodesk product users in the *manufacturing* industry.

At local chapter meetings, users benefit from face-to-face contact with their peers, enabling them to form professional relationships and strengthen their networking efforts. The local chapter focuses on the needs of our individual members, providing educational opportunities and sharing information pertinent to our industry. Meetings and programs are tailored to the needs of our region and the local chapter can be a great source for jobs and product support.

### We need you!

Adraft and AUGI are now in full swing trying to get these user groups up off the ground running!

We have found some great individuals out there that are very excited to get things going and to start things off. If anyone else in the Buffalo, Syracuse and Binghamton areas is interested to help get these groups going, please contact Cheri in the Rochester office (866-769-6163). We don't need much of your time, but we feel, and hope you do too, that this is a worthwhile opportunity to have these AMUG groups in all our areas!

**Please don't miss out on this great opportunity! Contact Adraft for more information and check out the AUGI website at [www.augi.com](http://www.augi.com)**

**Cheri Cole**  
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