

# Renderings:

For the Autodesk Manufacturing Community



Spring 2009

## It's here ...

As Advanced Solutions expands into new territories, we like to provide our clients with information about Advanced Solutions, Inc., Autodesk, and "CAD community" events.

This is your link to all the upcoming and current promotions, events, and training classes. We will also feature a section where Advanced Solutions professionally trained technical engineers help you with your everyday software needs by providing tips and tricks. All this and much more are now accessible to you with just a click.

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## Product Updates

### Autodesk 2010 Manufacturing Software Demonstrates Power of Digital Prototyping

Autodesk unveiled the latest releases of its 2D and 3D design and engineering software for manufacturers on Wednesday, February 18. Significant enhancements and newly packaged suites of the company's industry-leading products can help manufacturers build better products, ranging from mobile phones to bulldozers, in less time.

The new 2010 product lineup for manufacturers includes Autodesk Inventor® family of products, AutoCAD® Mechanical, AutoCAD Electrical, Autodesk Alias® family of products, Autodesk Moldflow®, Autodesk Navisworks®, Autodesk Showcase™, Autodesk 3ds Max® Design and Autodesk Vault software – industry-leading applications that constitute the Autodesk solution for Digital Prototyping. The 2010 software releases introduce an even greater range of design, visualization and simulation capabilities, along with tighter interoperability than ever before with both Autodesk software applications and other CAD tools. ([Learn More](#))

## Industry in the News

### Inventor iLogic 2009 Extension Available Exclusively for Subscription Customers

Exclusively available for Autodesk Inventor Subscription customers, the Inventor iLogic Extension 2009 enhances the parametric design capabilities of Inventor 2009 software by providing a powerful and elegant solution for rules-based design. With its easy-to-use rules authoring capabilities and an intuitive user interface seamlessly integrated with Inventor, Inventor iLogic shatters barriers to automating tedious design tasks and adds higher levels of design intelligence to your digital prototypes.

Inventor iLogic enables Inventor users to easily create "smart" parts and assemblies that define multiple product configurations and automatically update in real-time based on logical relationships between design parameters such as mass, volume, dimensional values, material types, feature and component activation or suppression, patterns, and many more.

For example, Inventor iLogic lets you easily create a design rule that lengthens a cross-beam, adds an additional support strut, and changes the material of the entire structure from aluminum to steel if the mass of the load it supports exceeds 200 kg. This simple example barely scratches the surface of Inventor iLogic's exciting capabilities.

Without Inventor iLogic, writing such design rules in raw programming language would require hundreds or thousands of lines of code. This is a time-consuming and error-prone process for expert programmers and next to impossible for anyone with less than expert programming skills. Inventor iLogic dramatically simplifies rules-based design with easy to use, clickable tools that any Inventor user working at the individual and engineering workgroup level can use – even those with little or no programming experience.

Autodesk recently acquired the original iLogic technology from Autodesk Authorized Developer Logimatrix, Inc., who previously offered iLogic for up to \$4,300 USD per license as an Autodesk Inventor 2009 Certified add-in. Autodesk is pleased to address this common Inventor customer request and add additional value to your investment in Autodesk Subscription.

The Inventor iLogic 2009 Add-in is available as English software only, and it can be installed and used on any language version of Autodesk Inventor 2009 family of software products. ([Learn More](#))

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### **Autodesk Announces Inventor Fusion Technology**

Autodesk unveiled its plans for Autodesk Inventor Fusion Technology, new Digital Prototyping technology that unites the power and control of parametric, history-based modeling with the ease of use and productivity advantages of direct, history-free modeling.

"Just as manufacturers need both 3D and 2D design tools, we believe manufacturers need the full power of both parametric, history-based modeling and direct modeling," said Andrew Anagnost, vice president of CAD/CAE for Autodesk Manufacturing Solutions. "Customers shouldn't have to make a choice. Inventor Fusion Technology is a unique approach that enables the coexistence of both these modeling approaches within a single digital model."

Only Inventor Fusion Technology delivers bidirectional parametric and direct workflows. This technology provides a powerful solution for companies that need to make rapid changes to a design through direct manipulation, but also have many years worth of feature- and history-based data and design intent that they need to access, use and maintain. This advancement enables users to adopt the modeling approach that is most appropriate to the task at hand.

Using Inventor Fusion Technology, designers and engineers can explore what-if scenarios and make rapid design changes without the limitations of feature order, dependencies or the original 3D CAD system used to create the design.

By removing unnecessary steps for users to capture and express their design ideas, Inventor Fusion Technology redefines ease of use. Context-sensitive, point-of-access tools present only what is needed right at the cursor, thus moving the user's attention from toolbars and dialog boxes and refocusing it on directly manipulating their digital prototypes.

"Many companies are seeking to take advantage of direct modeling in certain situations," said Anagnost. "Meanwhile, parametric, history-based modeling continues to be relevant and important. Inventor Fusion Technology is an exciting new step in realizing the promise of Digital Prototyping, bringing a new level of ease of use and productivity gain to an even broader group of manufacturers."

Autodesk intends to offer a free download of Inventor Fusion Technology Preview on Autodesk Labs later this year. For more information, please visit [www.inventorfusion.com](http://www.inventorfusion.com).

## **Promotions**

### **AutoCAD LT New Seat Promotion**

The AutoCAD LT® New Seat Rebate Promotion offers significant savings of up to US\$1,000 for eligible customers. This promotion is available to U.S. and Canadian commercial customers purchasing new licenses of AutoCAD LT software (five-seat limit) through March 31, 2009. Eligible customers will receive a US\$200 rebate for each new license (seat) purchased, after they submit an online request and provide proof-of-purchase documentation. ([Learn More](#))

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### **Autodesk Maya 8 Promotion**

Customers with valid licenses of Autodesk Maya® Complete 8 software or Autodesk Maya Unlimited 8 software now have the opportunity to purchase new licenses of the latest Autodesk Maya Unlimited product available at time of purchase at 10% off SRP when purchased with Autodesk Subscription. Subscription holders receive benefits including incremental product enhancements, personalized web support and self-paced training options with one annual fee.

The Autodesk Maya 8 Promotion qualifying purchase period runs through April 17, 2009. Upgrade your Autodesk Maya Complete 8 software or your Autodesk Maya Unlimited 8 software to the latest release of the Maya product. ([Learn More](#))

## Autodesk Maya Legacy

Customers with valid licenses of Autodesk Maya Complete 7.0.1 software or Autodesk Maya Unlimited 7.0.1 software now have the opportunity to purchase new licenses of the latest Autodesk Maya Unlimited product available at time of purchase at 30% off SRP when purchased with Autodesk Subscription. Autodesk Subscription is required on all Legacy purchases. Subscription holders receive benefits including incremental product enhancements, personalized web support and self-paced training options with one annual fee.

The Autodesk Maya Legacy Program qualifying purchase period runs through April 17, 2009. Currently the Maya Legacy Program is not available for customers looking to move to Autodesk Maya Complete 2008 product or Autodesk Maya Complete 2009 product. ([Learn More](#))

## Events Calendar

### 2010 Product Launch – Executive & Technical Event Series

Discover how new Autodesk 2010 software can help you break down design barriers, accelerate time to market, and yield more impressive work. Now more than ever, you can visualize, simulate, and analyze your ideas to the fullest extent – so even your most ambitious “What If?” scenarios can become a reality. Autodesk 2010 software makes it happen, whether you’re a designer, architect, engineer, or digital artist. Learn how Autodesk 2010 software products deliver groundbreaking new capabilities to tackle the most challenging design problems with ease.

*Executive Events* are developed for the business executive and decision maker; each session will cover 6-8 high level business issues and an overview of the 2010 software products.

Date & Topic: 3/24/09 – AutoCAD Inventor (2:30pm – 4:30pm)

*Technical Events* are developed for the software user; each session will cover 6-8 technical issues that may be resolved with the 2010 software products.

Date & Topic: 3/25/09 – AutoCAD Inventor (8:30am – 10:30am)

Date & Topic: 3/25/09 – AutoCAD Inventor (11:30am – 1:30pm)

Sign-up and attend a live event in your local Advanced Solutions Office or experience our events from the comfort of your own desk by registering for a webcast. Register online at [www.AdvancedSolutionsOnline.com/productlaunch](http://www.AdvancedSolutionsOnline.com/productlaunch) or call 1-877-438-2741.

## Training Classes

As an Autodesk Authorized Training Center (ATC), Advanced Solutions, Inc. provides top-quality professional training and continuing education programs, for optimum productivity, to maximize the return on your software investment. We combine professional courseware, expert instructors, state-of-the-art computer systems, and high-resolution projectors to provide you with the highest quality training available. We encourage you to take advantage of this valuable resource and we look forward to being a part of your continuing professional development.

Choose the product and experience level that fits you best. To view dates and locations, click on the class title listed below.

- **Beginning / Existing User**
  - [AutoCAD 2009 / AutoCAD LT 2009: Essentials](#)
  - [AutoCAD 2009: Transitioning from AutoCAD 2008](#)
  - [AutoCAD Electrical Essentials: 2009 \(JIC Standard\)](#)
  - [AutoCAD Mechanical 2009: Essentials](#)
  - [Autodesk Inventor 2009: Essentials](#)
  - [Autodesk Inventor 2009: Transitioning from Autodesk Inventor 2008](#)
  - [Autodesk Vault 2009: Essentials](#)
  - [Autodesk Productstream 2009: Essentials](#)

- **Intermediate User**
  - [AutoCAD 2009: Creating and Presenting 3D Models](#)
  - [AutoCAD 2009: Intermediate](#)
  - [Autodesk Inventor 2009: Advanced Assembly and Machine Design](#)
  - [Autodesk Inventor 2009: Sheet Metal Design](#)
- **Advanced User**
  - [Autodesk Inventor Professional 2009: Dynamic Simulation and Stress Analysis](#)
  - [Autodesk Inventor Professional 2009: Tube and Pipe Design](#)
  - [Autodesk Inventor Professional 2009: Cable and Harness Design](#)

## PILOT Program

Need training? Can't find a convenient Autodesk Authorized Training Center close by? The Advanced Solutions Professional Instructor Led Online Training (PILOT) can help. PILOT is a virtual online training enrollment option available for all of our regularly scheduled Autodesk Certified classes. With the PILOT program, you can experience the benefits of our "in class" instructor led program without leaving your office.

Benefits of the PILOT program:

- Save on travel expenses
- Experience live training
- View the instructor's screen just like you were present in the classroom
- See and hear the instructor's lessons in real time

Don't settle for "canned" video training or "how to" books – join us in our Professional Instructor Led Online Training today! [Click here](#) to view the list of online training classes available.

## Tips & Tricks

### Using AutoCAD Mechanical or AutoCAD Electrical as AutoCAD

*Written by Adam Brown, Support Specialist*

**Issue:** Although your installed product is either AutoCAD Mechanical or Electrical, there may be times that you only want to load the standard AutoCAD interface. There is a known issue regarding a workspace problem when doing this.

**Resolution:** The workspace issue arises whenever you open your vertical product with the Mechanical or Electrical shortcut. To get around this issue ... Want to read further? Visit our Client Center at [www.AdvancedSolutionsOnline.com/clientcenter](http://www.AdvancedSolutionsOnline.com/clientcenter).

### Section Lines Not Straight?

*Written by Justin Chartier, Technical Engineer*

**Issue:** Often times when attempting to create straight (linear) lines to be used as a sectioning line it can be difficult to do, resulting in a skewed sectioned view.

**Resolution:** By right clicking on the sectioning line and clicking edit, this will take you into the Sketch Environment. Next, you can apply ... Want to read further? Visit our Client Center at [www.AdvancedSolutionsOnline.com/clientcenter](http://www.AdvancedSolutionsOnline.com/clientcenter).

## New to the Team

Please welcome Ed Rinaldi to our team! Ed is our new Manufacturing Technical Engineer in our Cincinnati, OH Authorized Training Center.