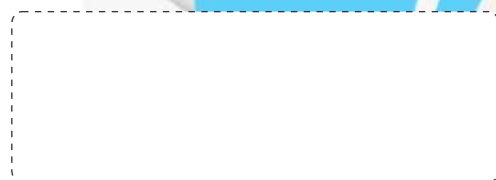




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## Navisworks 2016

- A Brief on Project Solution's Features and Benefits

**REALISTIC VISUALIZATION OF PROJECTS:** Develops photorealistic visualization with 3D animation and present such realistic project models to the stakeholders.

**INTEGRATE TO SINGLE PROJECT MODEL:** Users can combine the design. Reconstruct and combine other project data to single yet integrated model.

**REVIEW AND COLLABORATIVE TOOLKIT:** The model enables to measure the size, distance, and angles of camera and export those views into proper images or reports. Also, it gives a provision to add section plans and cross section for the appropriate viewing of reports. Additionally, collaborative toolkit encourages communication between the team for designing and markup all the viewpoints.

Conclusively, Navisworks 2016 help in coordinating, project analysis with 3D animated model and communication regarding the design and development. Along with the feature which works as the enhancement to make software user-friendly, the list of benefits will help you encompass viable information for developing next project model.



*Navisworks 2016 is a premier project review software for professional use. The development of software took place for use in fields such as architecture, construction, and engineering. The purpose is to create an animated model of the project through data for both the model analysis and workflow outcomes. Navisworks model promotes integration, analysis, and communication between the team members which leads to coordination and resolving conflicts. The model has been designed in a way to plan the project before construction or renovation starts.*

model and allows you to enjoy the access through Navisworks or BIM 360 Glue or a mobile client.

### Product Integration

Now, with the extra chunk of benefits, Navisworks ensure that the latest versions of model design can view through Autodesk file readers, exporters, and combinations. It also supports third-party integration updates for the products and provides data back to the third party software to collaborate and review the complete project.

### Quantification and Printing

With the up gradation of Naviswork 2016, now users can print the 2D takeoffs and also the variable line thickness of 2D linear takeoffs.

### Using BIM Coordination Models in AutoCAD:

The new development of Navisworks 2016 has led to the designing various products which are subject oriented. This promotes pushing project coordination and models work in content to avoid any clashes.

### Benefits of Autodesk Naviswork

**DETECTION OF CLASHES:** It anticipates and prevents problems like clashes, reducing expensive delays and rework.

### BIM 360 Integration

By using BIM 360, the data is synchronized with Navisworks tools and help to share BIM models which contain Navisworks data in your BIM 360 Glue project team. It is helpful for synchronization of data, saves time and coordinates between distributed team efficiently. Once the model synchronizes with Navisworks, saves back to glue as a merged

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**Imagineer Design Contest 2016**

**WINNING PROJECT**

**Mr. Jeevaraajan (Winner)**  
CADD Centre, Brough Road, Erode.

**Runner- Up Architectural stream**  
**Mr. Mohammed Alijauhar**  
CADD Centre, Kasaragod, Kerala

**Runner- Up Mechanical stream**  
**Mr. Prateek Kumar**  
CADD Centre, NOIDA, SECTOR 18

**Imagineer**

Imagineer is a social media design contest conducted through <https://www.facebook.com/caddcentre>



## Onshape shifting the Process Power to the Cloud as Mobile Options Increase

Technology today has made Apple iPad Pro, and a simple pencil join in to make an amazing lightweight hardware giving users access to full Onshape functionality in the field. In the March of 2016, Onshape came into the light with its support for the iPad Pro- an Apple high powered tablet from Apple replacing the laptops. This will be supported with an Apple pencil- a tilt and pressure sensitive stylus.

This is a cloud based 3D mechanical CAD system that runs on laptop and desktop computers. The exciting thing about Onshape is, it can now also be used on iOS and Android based tablets and phones. Taking advantage of the pencil, the Onshape Force Zoom offers an extra edge modifying the 3D figure. While working with a particular piece of 3D geometry, the CAD users can apply a slight pressure with the pencil to zoom in and enlarge the tiny features or smaller areas of the model.

The Apple pencil lends itself beautifully to a two handed workflow. You can pan or rotate the model with one hand while using the pencil to sketch, select and interact with your 3D models. This technology will surely transform the way in which engineers work.

### Matching with the Desktop

CAD solutions that offer a mobile application component or capabilities are limited. Not all the features that work with the desktop version works with the mobile devices. Onshape considers the fact that mobile devices can't process that powerfully and also does not hold as much memory as the desktop systems. Therefore, the Onshape calculations are conducted on the company's servers instead of on the user's hardware. While software capabilities can be consistent across the hardware platforms. This gives the mobile devices equal processing power to the desktop systems.

### In the Field

Not only the CAD engineers but also there are Executives that work in the field and may need to make quick changes. Considering this fact, the CAD technology is now providing opportunities for the executives to make design adjustments right away in the field. Collaborative sessions, on the other hand, enable Onshape users to link two or more screens. This concept makes the team members back in the office follow the updates.

As far the security is concerned, organizations can set permission level for the workers that determine who have the ability to edit or view designs. Also, if something goes wrong with the change, Onshape also allows you to restore the model to any state.

Some companies also believe that giving access to a number of employees and across mobile devices can be dangerous as far as security is concerned. But the use of Cloud storage and processing made it absolutely safe even in the case of loss or theft of the device. The password protected Onshape cloud is accessible to only authorized users.

The Onshape technology will undoubtedly change the way engineers and executives work. This CAD technology will offer a complete new level of flexibility in the business operations.



## Airbus Employs Additive Manufacturing Program to Create 3D Parts

As known to many of us, 3D printing technology is widely used by many industries and will continue doing for the commercial enhancement. Airbus Group which is the largest aviation firm in Europe declares its collaboration with Dassault Systems. The association, Dassault Systems is viewed as a dominant in 3D design software and the 3DEXPERIENCE will soon shift to the Airbus additive manufacturing programs. Now, the 3D design software will enable Airbus to model the part of aircraft for its commercial use digitally.

The company Airbus Group, which is a solid combination of Airbus, Airbus Defense, Space and Airbus Helicopters, incorporates 3D EXPERIENCE to its division of additive manufacturing, finally after a consistent success of two-year production process. Based on the slated information, the 3D platform functions by integrating design, simulation, and production to a product lifecycle management system (PLM) solution. The platform will come into existence by the Airbus Group for making a collaborative design, prototyping, simulate application for the additive manufacturing process, among the parts of test flights and within the production use on commercial aircraft.

However, the only problem linked to additive manufacturing is the low cost which gives a scope of errors when compared with traditional manufacturing processes. Hence, Airbus floats a solution "Co-Design to Target" for optimization of conceptual design by validation at each phase including designing of parts, production, and testing during the

process. The initiative taken for optimization at each stage will ultimately contribute to the reduction of cost of manufacturing and unnecessary waste.

Moreover, additive manufacturing remains as the world best aerospace engineering firm for both the prototypes as well as finished products and a robust software solution continuing as high demand. Thus, Dassault Systems is duly interest to lend their manufacturing solution to the best among the aerospace industry. In addition to it, the idea of additive manufacture of metal parts gets further credibility when it declares the Airbus Subsidiary. Along with the 3DEXPERIENCE platform as its benchmark, they provide a variety of platforms to its industrial partners.

Robert Nardini as the Senior Vice President of Engineering Airframe at Airbus explains that "There are some projects which are increasing the use of additive manufacturing for production of prototypes as well as production components and delivering light and affordable parts that can meet the performance standards. Now, there will be a similar analysis to view the technology from every aspect if the reader is a manufacturer. Closing down the statement for Additive manufacturing, it holds a fast and energy efficient way to manufacture products without causing much wastage of material.

Image courtesy: [www.newhdwallpaper.in](http://www.newhdwallpaper.in) || [www.onshape.com](http://www.onshape.com) || [www.forwardgeek.com](http://www.forwardgeek.com) || [www.alabamanevcenter.com](http://www.alabamanevcenter.com) || [www.netc.ac.th](http://www.netc.ac.th) || [3dprintingindustry.com](http://3dprintingindustry.com) || [www.airbus.com](http://www.airbus.com) || [autodesk.typepad.com](http://autodesk.typepad.com) ||

