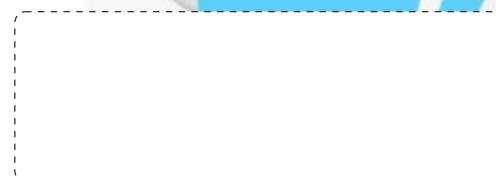


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What's new in the SOLIDWORKS 2018 release?

- ❖ **Sketch Planes as Symmetry Reference:** A plane can be used as a symmetry reference to mirror 2D and 3D sketch entities.
- ❖ **Pen Sketching:** With Windows 10 touch screen devices, the designers will have the ability to draw contours by freehand using a stylus or a pen.

ASSEMBLY

With the enhancements in Assembly, SOLIDWORKS 2018 will definitely improve the performance of the users.

- ❖ During mate, the ALT key can be used to hide the surfaces.
- ❖ The 2018 release of SOLIDWORKS will have 12 mouse gestures.
- ❖ There is a new dialog for performance.
- ❖ The new release will feature a new progress bar for assembly.
- ❖ A new home screen will make assembly even more interesting.
- ❖ Large Assembly

- Mate and insert graphic components easily.
- Revert the data to graphics for better performance.
- The ability to off the scenery (graphics data).
- Set multiple objects to be resolved in a Large Design Review.

3D Interconnect

- ❖ Custom properties.
- ❖ Ability to preserve sketches and curves.
- ❖ Updating neutral files is supported.
- ❖ The new release will support I G E S , ACIS, STEP, and JT.

Fabrication

- ❖ New slot and tab feature works in parts, multi-body parts, and assemblies.
- ❖ Drawing revision table with SOLIDWORKS PDM bi-directional communication.

Generative Design

- ❖ SIMULATION view in SOLIDWORKS Integration.
- ❖ Manufacturing Controls
- ❖ Multiple Objective support

These are just the preview of some of the modifications. The list of new features and modifications will be known only after the release of the product.



SKETCHING

There were a few mind blowing enhancements in sketching. Some of them are as follows

- ❖ **Mirror 3D Sketch Entities:** In a 3D sketch, the user will have the ability to mirror the entities of the sketch.

Support Women Engineers

- The World Needs Them!

Women with the desire, skills, and ability can enter and succeed in any stream or profession that she wishes. However, it is depressing to find that most of the women after attaining their qualification in technology and science make a U-turn, not to return. Recently, many organizations all around the world have launched campaigns and taken initiatives to increase the women in the engineering field. The world needs women with higher capabilities and problem-solving skills. Here, are the ways to encourage and attract women towards the engineering field:

PROMOTING GIRLS TOWARDS THE SECTOR IN EARLY AGE

Several organizations are into the practice of promoting girls in the sector by encouraging them to choose right subjects. They are also dedicated to inform and explain the rewarding opportunities available to women in the sector. There are organizations who

invite a huge number of female graduates and provide them with essential training and remarkable career options.

CREATION OF FLEXIBLE WORK CULTURE

Women are usually surrounded by family responsibilities to look after. So, it is significant to ascertain flexible working environment which will act as a key to attract women in the engineering sector. Since we have technology that works beyond the geographical boundaries and people work to meet the need of employers sitting in any part of the world. Thus, it is possible to offer women with flexible work culture to give a boost in their career options and involve women in the very important sector.

ARRIVAL OF MORE ENGINEERING CAMPAIGNS

It is also possible to encourage women towards the sector through targeted campaigns such as The Institute of Engineering and Technology's (IET) award namely, Young Woman of the Year in the UK where women are rewarded as the supporting partners. Involvement of such popular campaigns will increase women interest and action towards Engineering. In addition, business and schools can collaborate and work towards raising women awareness in engineering.

ERADICATION OF DISCRIMINATION AND BIASED BEHAVIOR

Recruiting of women would easily take place if they were present on selection panels. Elaborately, women usually do not appear for job selection or are not present to get shortlisted. All form of prejudiced thinking should abandon to make sure no discrimination takes place and women are able to make their way to better opportunities.

There is much of work involved in guiding girls and explaining them career-enhancing jobs in the field of engineering. Therefore, the complete engineering field must be widened and should direct the jobs to them so that, female population is present in the suitable number at all the levels.

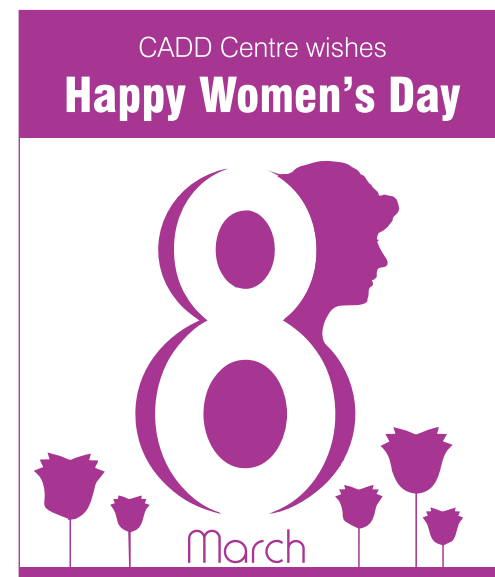


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ISRO Makes History! Breaks Russia's Record!

the 104 satellites in ISRO's Polar Satellite Launch Vehicle PSLV-C37. Among the 104, three satellites were from India, 96 from the United States and the rest of the satellites from UAE, Switzerland, Kazakhstan, Israel, and Netherlands.

With the cool advancements and records, ISRO has become the dream company for many young Indians. To make this dream come true, CAD software can be the right option to begin. CAD plays an important role in the initial design process in the field of aerospace because aerospace projects are highly expensive and demand a lot of innovation. One can design everything right from space vehicles to satellites and missiles using incredible features of CAD.

Some of the CAD capabilities for Aerospace Industry are as follows

- Design integration and aggregation
- Detailed engineering design based on conceptual studies
- Studying alternate designs and valuing engineering on prevailing designs
- Designing composite modeling mechanism
- Designing and validating structures
- Training user manuals with interactive 3D technology
- Scanning
- Reverse engineering
- Parametric part modeling
- CAD customization
- Jigs & Fixture design
- 2D to 3D conversion services
- Legacy data conversion
- Generating engineering and manufacturing drawings

What are the **7** TECH TRENDS that will dominate in **2017?**

The power of technology in 2016 was astounding. Right from the power to retrieve any information to communicate with others through the shortest device that fits in our pockets. We have already seen many advances in the field of Internet of Things, Artificial Intelligence, Automobile, etc. Since, the technological innovations have taken over the consumer market by a storm, remain eager for what 2017 has in its store for you:

AUGMENTED REALITY AND VIRTUAL REALITY

No wonder, AR, and VR were witnessed as big hits in 2016. We have an example Pokemon Go, a smartphone based Augmented reality game has witnessed 100 million downloads. Since then the market is paving its way towards AR and VR-based applications and devices. 2017 is expected to show great jumps in the field of AR/VR in the global markets.

MACHINE LEARNING



Machine learning will enter almost every consumer application and suggest products based on prior purchase to improve the user experience. Therefore, in 2017, machines will learn, adapt, and act in an autonomous mode instead of executing on some pre-defined instructions.

AUTONOMOUS CARS



The merger of various Internet of Things devices has made it possible for the car makers such as BMW, Tesla, and others to make driver-less cars. 2017 shall also look towards the advancement such as car-to-car communication, cars talking to each other, traffic information and accident related information.

SMART HOME TECH

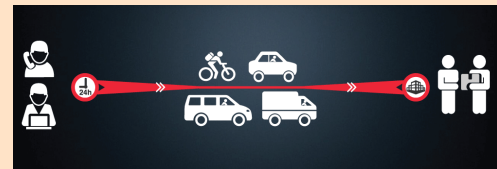


We are not living in smart homes yet but have been hearing about IoT in the home space for many years. However, with the big technological players such as Google, Amazon, and Facebook who will be entering the domain shall help in witnessing commercialization of smart homes.

SERVICES THE DEMAND

Premises of phone apps that the startups have built such as cab services- "Uber", food delivery services- "Food Panda", and ability to

book places of stay- "Make My Trip" is nothing but the way technology is blessing us. It is expected to see some more advancement in the stream of apps that are going to benefit in an extraordinary way.



AUTOMATION

Automation can relate with robotic journalists that we have witnessed and will soon make the leap towards the practical type of articles, simplifying the human-exclusive tasks. Therefore, automation combining with machine learning will improve everything faster and will turn 2017 as a landmark year.

PHYSICAL-DIGITAL INTEGRATIONS

Mobile devices have already gifted us a pleasure to view and purchase things online. Exaggeration to such technology, we might experience the integration of physical and digital realities. The online brand we see today might add attractive features such as store maps, dash buttons, and product trails in 2017.

In 2017, tech surprises are anticipated to come from a number of directions. So, be ready to see how technology will shape in future.