

What is AutoCAD?

- **AutoCAD** was one of the first *Computer Aided Design* programs to be made available on personal computers.

Computer Aided Design

- It is built to help people design buildings, products, or public spaces, without having to draw up plans by hand.
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- It was released in 1982 by Autodesk, Inc., and offered a personal solution to software that was before then released only for larger workstations. While early **CAD** programs required massive amounts of computing power, this software streamlined its operating and optimized it for the IBM PC, allowing people to work from home or on their own work computers.

A Brief History of AutoCAD



1982

The first release of AutoCAD, named (appropriately) AutoCAD Version 1.0. AutoCAD was known as the first CAD system for PC's (as opposed to software for mainframe computers).



1986

Autodesk - makers of AutoCAD - enjoyed quick success in their first 4 years. By 1986 AutoCAD was the most widely used design application on the planet.



1990

In the first 8 years of AutoCAD's existence, Autodesk releases 11 versions of the software. 1990 sees the release of AutoCAD 11. In the following 2 years, AutoCAD releases their first Windows-dedicated version.



1993

AutoCAD releases LT, a cost-effective solution for budget-sensitive users. AutoCAD LT offers a similar solution to AutoCAD but with limited features at a significantly lower price.



2002

Autodesk acquires their flagship Building Information Modeling (BIM) solution, Revit from Revit Technology Corporation. Revit opens new opportunities for Autodesk as the market demand for CAD widens.



2010

As the world becomes more mobile-centric, Autodesk releases AutoCAD for iOS, and AutoCAD for Android in 2011.



2013

After 19 years of officially dropping support for Apple computers, AutoCAD 2013 becomes available through Apple's Mac App store.

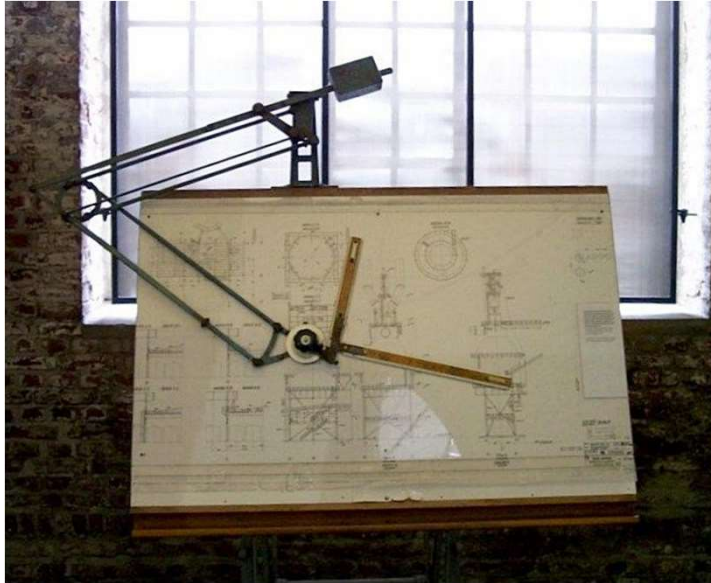


2022

Autodesk releases AutoCAD 2023, their 37th official release since 1982. AutoCAD 2023 boasts a new 3D graphics system and improved floating drawing windows.

By 2022 it is estimated that AutoCAD has a 31% market share of CAD users worldwide.

What is the difference between the hand drafting and cad drafting?



VS



Reasons Why you should use CAD rather Than Manual Drafting

- **Easy to Modify:** Modifying the CAD geometry is easy; you will always have “copy”, “cut”, “paste”, “delete”, “move”
- **Easy to Reproduce:** Draftsmen used to take days to complete a drawing by manual drafting, and reproducing the drawing meant recreating the drawing from the beginning. But, in case of the CAD, you can reproduce the drawing in no time and make as many copies as you want.
- **Environment Friendly:** Manual drawings are necessarily created on paper, but the CAD drawings can be stored and used electronically without using paper.
- **Three Dimensional Modeling:** Creating 3D models manually is a very difficult and tiresome job.
- **Accuracy:** Computers & AutoCAD can produce even large files with same ease and accuracy.

.Q: What are the reasons of using CAD drawings rather than manual drafting? Explain the advantages

