



Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Career Development Cell

Presents

Find some useful software's to prepare for Core Mechanical Engineering Jobs.

(3D modeling software has become an essential tool for a lot of industries)

- 1. AutoCAD-** (AutoCAD is a commercial computer-aided design and drafting software application).
- 2. Autodesk Fusion 360-**This one is a great CAD software created by Autodesk. Its cloud-based program allows you to improve your teamwork by offering you amazing communication during your mechanical projects.
- 3. Keycreator-**It's a geometry-centric 3D modeling software tool that lets you create ideal 3D concepts by offering you direct CAD modeling.

The software is available in three versions, namely:

- Standard
- Pro
- Max

- 4. Autodesk Inventor-**Inventor helps you design your mechanical projects by offering you various modeling options as well as simulation tools.

- 5. Solid Edge-**Developed by Siemens, Solid Edge is a perfect choice for engineers to accomplish their complex projects. It is an opportunity to conceptualize ideas and give them shapes. Especially known for creating outstanding 2D orthographic view functionally, Solid Edge is extremely convenient for mechanical designers.

The software has powerful engineering simulation capabilities for Computer-Aided Engineering. Also, it is very essential and surely allows users to go further with all their technical 3D projects.

6. Solidworks-Another renowned name in the mechanical engineering design industry, Solidworks is ideal modeling software for engineers as well as 3D designers.

7. CATIA-This is a professional tool developed by Dassault Systems. It is majorly used in designing complex and detailed aerospace projects. It is capable of creating wonderful CAD 3D models.

8. ProE/PTC Creo-Developed by Parametric Technology, ProE is a 3D CAD software providing:

- Assembly modeling
- Finite Element Analysis
- NURBS surface modeling

9. Mathematica-Is a specialized software that requires no add ons to produce incredible results. With the help of this technical computing system, you can create amazing parts for your 3D printed mechanical parts. In addition, it offers features like 2D and 3D data visualization, geo-visualization, and animation tools.

10. ANSYS- ANSYS is one of the most used mechanical design software in India. In ANSYS, we can import designs created on other platforms and simulate them here.

11. Alibris- Founded in 1997, Alibris is a highly-navigable software that provides users with creating accurate designs.

12. SolveSpace-Is best mechanical engineering design software. Its key features include mechanism design, plane, and solid geometry drawing, exporting 2D vector art for a waterjet, using a constraint solver to simulate planar or spatial linkages, etc. Apart from all this, you can prepare 3D projects in no time with the help of Solve Space.

13. Simens NX CAD-Siemens NX CAD is one of the most widely used software in the manufacturing sector, which allows you to perform synchronous modeling.

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