



9 CRITERIA FOR CHOOSING A 3D CAD SYSTEM

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NAVIGATING THE CAD LANDSCAPE — MAKING THE RIGHT CHOICE FOR YOUR DESIGN NEEDS

Whether you are new to CAD or an experienced designer, selecting the right 3D CAD system is crucial for ensuring the success and efficiency of your projects. Your CAD solution significantly impacts productivity, collaboration, and overall business growth. This e-book guides you through nine critical criteria to consider when choosing a 3D CAD system.

As 3D CAD technology evolves, choosing the right 3D CAD solution becomes even more significant. Use this guide to help evaluate criteria such as ease of use, collaboration capabilities, data management, and scalability. Using the right 3D CAD system will ensure your projects are successful and lay the foundation for future growth and innovation.

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1 | INDUSTRY-STANDARD SOLUTION

When choosing a 3D CAD system, opting for an industry-standard solution is beneficial. Industry-standard solutions come with a large user population that has thoroughly vetted the software and accepted it as their chosen tool. You can also count on an industry-standard CAD solution to never lose data during a conversion, allow for easy file sharing, have a multitude of learning resources, and more.

A robust CAD system should provide extensive functionality, allowing users to create highly accurate designs quickly. Efficient design creation should be paired with robust communication tools to ensure that designs can be easily shared and understood by manufacturers, suppliers, and other stakeholders.

To maximize efficiency, designers should be able to work in 3D with as few steps as possible, without compromising design quality. When evaluating CAD software, it is crucial to understand how efficiently different packages can create the types of products your company makes. For example, if your company manufactures sheet metal parts, focus on specialized tools for modeling these parts and automatically generating flat patterns. If your firm designs ergonomic products, consider the tools available for creating freeform surfaces and blends with continuous curvature.

Given that changes are inevitable, it is also important to assess how difficult it is to modify parts and assemblies. A CAD system that simplifies your company's designs with even 20% fewer steps can offer significant cost advantages compared to less efficient systems.

Your CAD solution should support the creation and modification of complex designs. The right combination of capabilities ensures that your design process is both streamlined and versatile, enabling you to tackle a wide range of projects efficiently and effectively.



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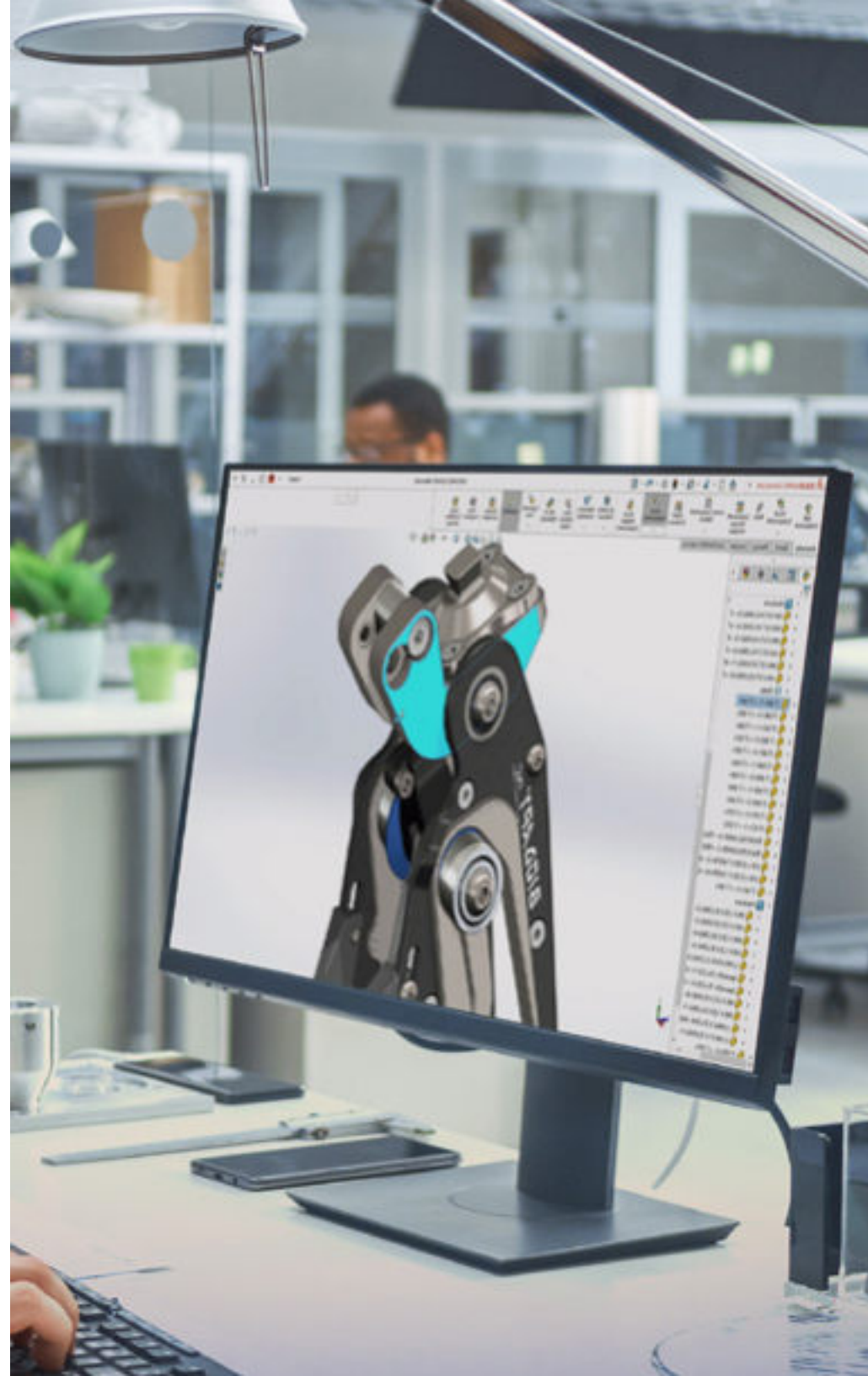
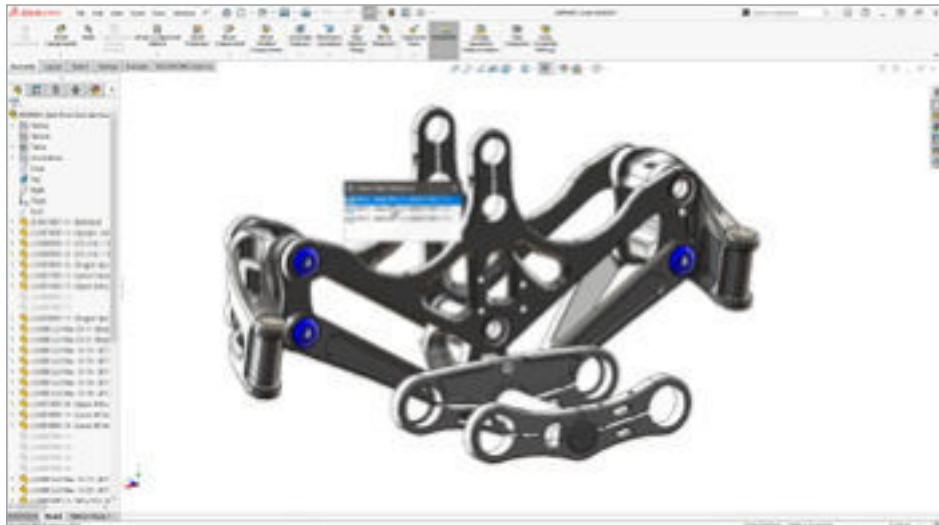
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2 | EASE OF USE AND INTUITIVE UI

A short learning curve and an intuitive user interface are critical factors in the adoption of any new software. Becoming proficient in 3D design requires training and experience, so it's essential to choose a system that's both easy to learn and highly capable. Look for a CAD system that offers a simple, easy user interface. The ideal system balances a powerful toolset with user-friendly features, making it accessible to both novice designers and seasoned professionals without overwhelming complexity. Comprehensive training can further enhance your team's productivity and ensure the quality of your designs. A CAD solution with a robust certification program validates the expertise of your team members, assuring their proficiency with the software.



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3 | DEMOCRATIZING CAD DATA

In today's collaborative work environment, seamless communication and collaboration with both internal and external partners is crucial. An efficient CAD system should enable smooth collaboration and support multiple file formats, making it easy to share designs without losing important data. Integrated solutions include the added benefit of ensuring that all team members, including those without CAD expertise, can access and review the data. These capabilities democratize CAD data, enhance teamwork, and streamline workflows.

Enabling all stakeholders to access the necessary information at the right time allows them to conduct their work effectively. This involves secure data access, ensuring that sensitive information is protected while still being easily accessible to authorized users. Named-user licensing further supports this by providing flexible access control, making it easier to manage who can view and edit specific files.

Cloud collaboration capabilities further democratize CAD by offering scalable storage solutions, automatic updates, and remote access capabilities. This ensures that all team members, regardless of their location, have access to the most current data and tools, enhancing collaboration and efficiency. By leveraging these capabilities, you can ensure that your CAD data is both accessible and secure, leading to better project outcomes and encouraging innovation.



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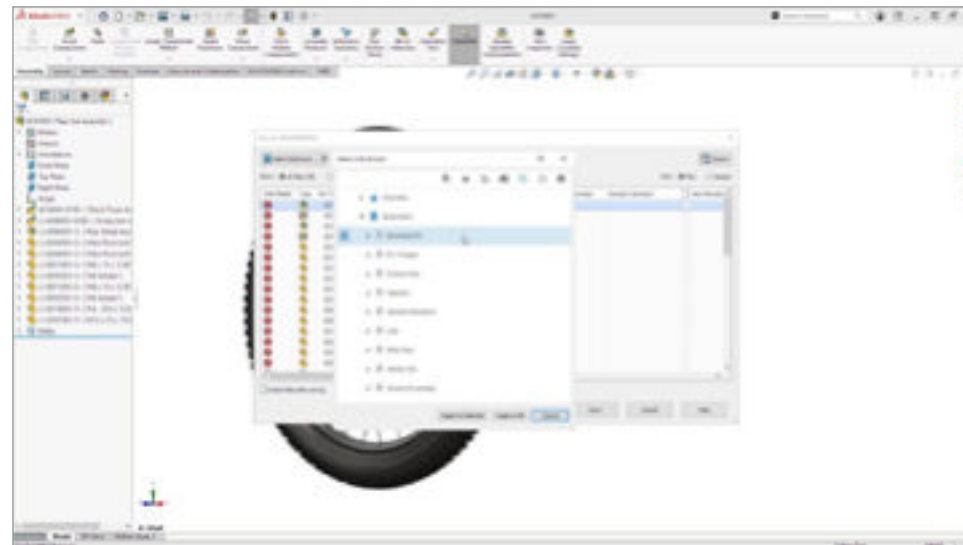
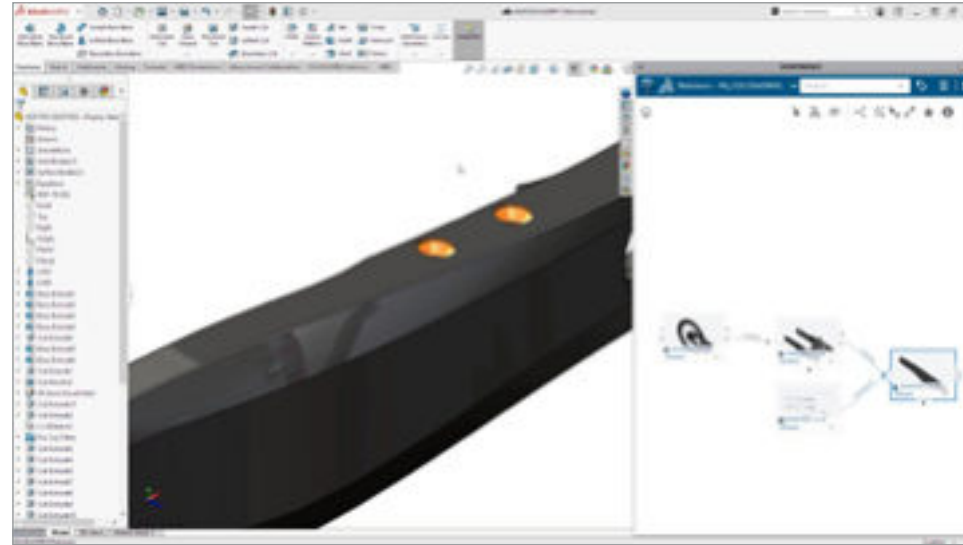
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4 | SINGLE SOURCE OF TRUTH WITH CLOUD STORAGE

Maintaining a single source of truth is crucial for managing complex 3D CAD projects and ensuring data integrity. Keeping all design data in a centralized, secure cloud environment allows stakeholders to access the latest information, reducing errors and improving decision-making. While there are many cloud storage solutions, utilizing one that is aware of CAD relationships will change the way you design for the better.

A CAD-aware cloud storage solution understands the relationships between CAD files, enhancing your ability to manage dependencies and streamline workflows. This approach supports automatic revision tracking and part numbering, creating a clear and organized record of your design changes. This helps prevent version conflicts, ensures every team member works with the most up-to-date information, and safeguards the integrity of your design data.

In a collaborative environment, having a reliable single source of truth is essential for efficient project management and successful outcomes. Your business can use a secure cloud environment to protect and easily access its 3D CAD data, which can lead to better project results.



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5 | PRODUCTION-READY DRAWINGS

Effective communication of design intent is crucial for moving from concept to production. Robust CAD tools are essential for creating production-ready drawings that adhere to industry drafting standards and support model-based definition. These tools enable the creation of comprehensive digital drawings that can be easily shared with suppliers and manufacturers, ensuring that your designs are accurately interpreted and manufactured. This capability reduces the risk of errors and rework, streamlining the transition from design to production.

CAD tools with cloud collaboration features allow stakeholders to access and review drawings in real time, regardless of their location. This connectivity ensures that all stakeholders have the most up-to-date information, further reducing the potential for miscommunication and mistakes. Integrating cloud-based solutions with CAD tools enhances the overall efficiency and accuracy of production-ready drawings.



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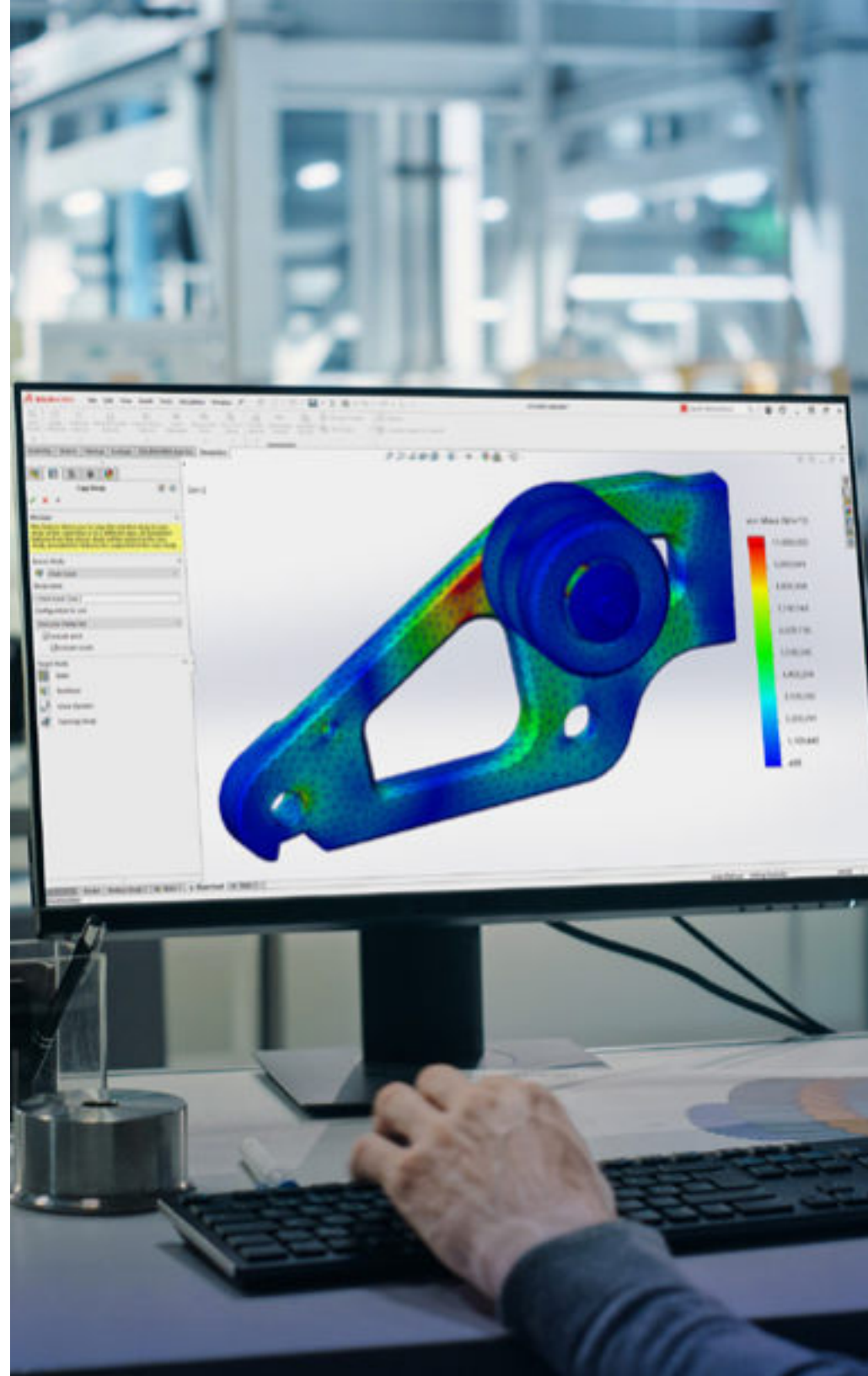
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6 | INTEGRATED SIMULATION

Physical prototyping can be expensive and time-consuming. Advanced CAD systems have addressed this issue by incorporating sophisticated but approachable simulation tools. These tools allow designers to virtually test and validate their designs, which reduces the need for multiple physical prototypes, saving time and money.

One of the key features is finite element analysis (FEA), which provides robust simulation capabilities for tackling complex engineering problems. This helps ensure that designs meet the required specifications before moving to the production phase. By using integrated simulation, you can optimize your designs, identify potential issues early, and make informed decisions that enhance the overall quality and performance of products.

Additionally, cloud-connected solutions enhance these simulation tools by providing scalable computing power, enabling faster processing of complex simulations. This ensures that even the most demanding simulations can be completed efficiently, allowing for more iterative testing and refinement. Businesses that use integrated simulation tools can achieve greater accuracy, reduce costs, and accelerate the product development cycle.



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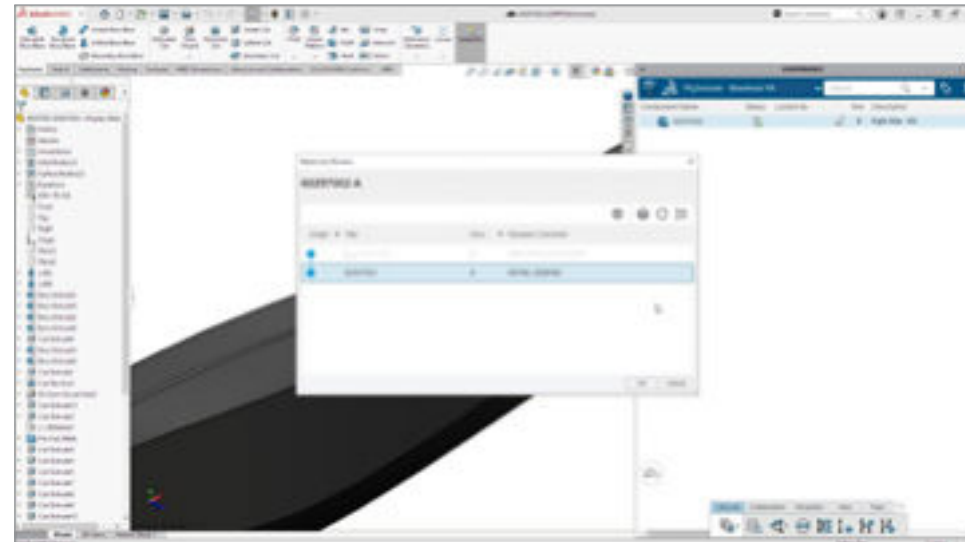
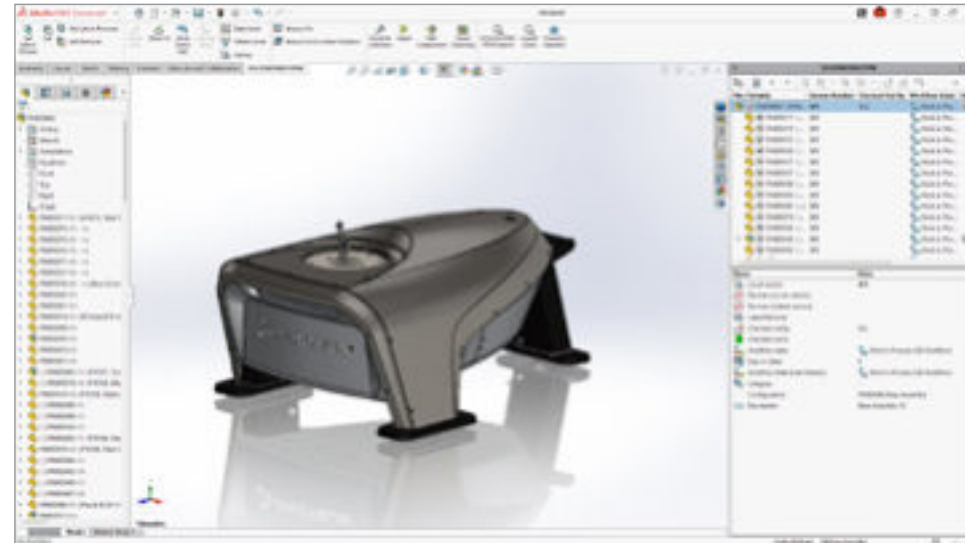
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7 | EFFICIENT DATA MANAGEMENT

One of the main advantages of an effective CAD system is its ability to efficiently manage data. Designers and engineers should be able to easily search for and retrieve previous designs, components, and assemblies from a central repository. This capability saves time, ensures consistency, and reduces the likelihood of errors. Powerful search functionality simplifies adapting and modifying existing designs for new projects.

Having robust revision management tools is essential for maintaining the integrity and traceability of design data. Effective CAD systems automatically track changes, maintain version histories, and manage approval workflows. This ensures that all team members work with the most up-to-date information and provides a clear audit trail for quality control and compliance purposes.

Traditional management of design data requires significant IT infrastructure, including servers and dedicated personnel. Modern CAD systems can eliminate the need for on-premise servers by securely storing all data in the cloud, thus reducing IT overhead and associated costs. Cloud-based systems ensure data accessibility from anywhere, facilitating remote work and collaboration without complex VPN setups. Automatic updates, backups, and maintenance minimize downtime and lower costs, allowing you to focus on innovation and quality without being burdened by technical issues.



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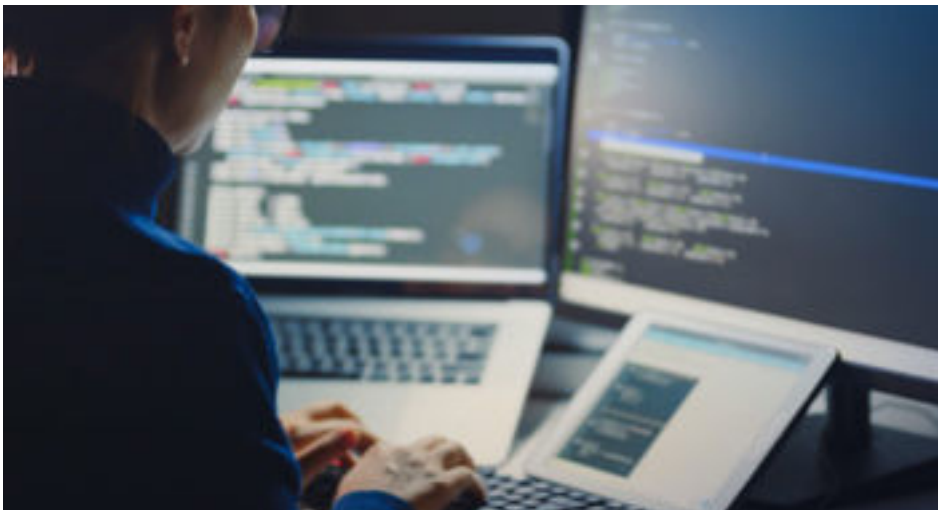
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8 | USER-FOCUSED R&D AND CONTINUOUS ENHANCEMENTS

Continuous improvement and innovation are essential for any CAD system. Commitment to user feedback-driven research and development ensures that the software remains current with industry trends and technological advancements. Regular updates and new features provide you with the latest tools and capabilities, helping you stay competitive in a fast-evolving market. Choosing a CAD system from a supplier with a strong track record in R&D ensures that the platform will continue to evolve, meeting changing needs and offering ongoing value over time. It's important to choose a supplier known for its leadership in your industry and dedication to advancing CAD technology in order to reap these benefits.



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9 | VALUE OF RESELLERS AND SUPPORT

A strong reseller partner network and robust support services are essential for maximizing the benefits of any CAD system. Resellers should provide exceptional support and comprehensive training to ensure users can fully leverage the software's capabilities. When choosing a CAD system, it's crucial to select a reseller with the expertise and experience to help you succeed. Quality support can make all the difference in adopting new CAD software that advances your business objectives now and in the future.



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As your business grows, your CAD system needs to scale with you. It is essential to choose a CAD platform that can evolve with your needs, offering scalable solutions that accommodate increasing complexity and workload. An integrated ecosystem allows you to add advanced tools as required, from electrical schematics to manufacturing management. A cloud-based platform provides unlimited storage and easy user management, making it ideal for dynamic business environments and growth. The integration of cloud storage ensures that you can manage increasing amounts of data as your projects expand, supporting your business's long-term success.

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Named-user licensing with SOLIDWORKS® offers significant advantages in terms of flexibility and ease of management. This licensing model reduces IT overhead by simplifying software deployment and updates. With cloud-based services, users can easily access the latest versions of the software without the need for extensive IT resources. This allows small businesses and startups to optimize their operations without significant infrastructure investments. These workflows illustrate how SOLIDWORKS integrates with other tools and simplifies complex tasks, saving time and resources.



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Cloud-Based Installation:

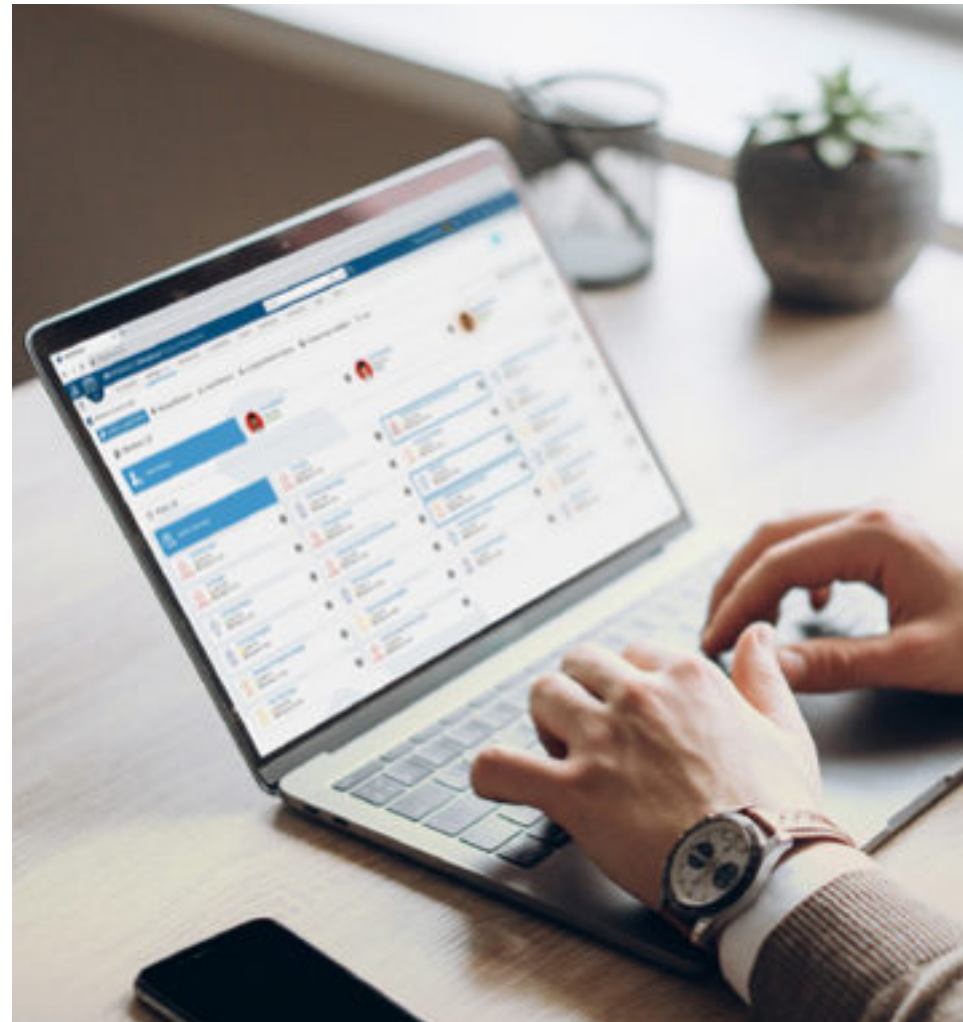
- Download the CAD software from the cloud, eliminating the need for physical media.
- Use a centralized installer to streamline deployment across multiple devices.

Automatic Updates:

- Enable automatic software updates to ensure all users have the latest features and security patches.
- Schedule updates during off-peak hours to minimize disruptions.

Centralized User Management:

- Manage user permissions and access rights through the Admin Portal.
- Quickly add or remove users and adjust their roles from a single interface.



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Cloud Data Storage:

- Store all design files in a secure cloud environment, reducing the need for on-premise servers.
- Ensure data accessibility from any location, facilitating remote work and collaboration.

Automatic Backups:

- Enable automatic backups to protect against data loss.
- Schedule backups to occur at regular intervals without manual intervention.

Scalable Resources:

- Scale storage and computing resources up or down based on project demands.
- Avoid the costs and complexities of maintaining physical IT infrastructure by leveraging cloud scalability.



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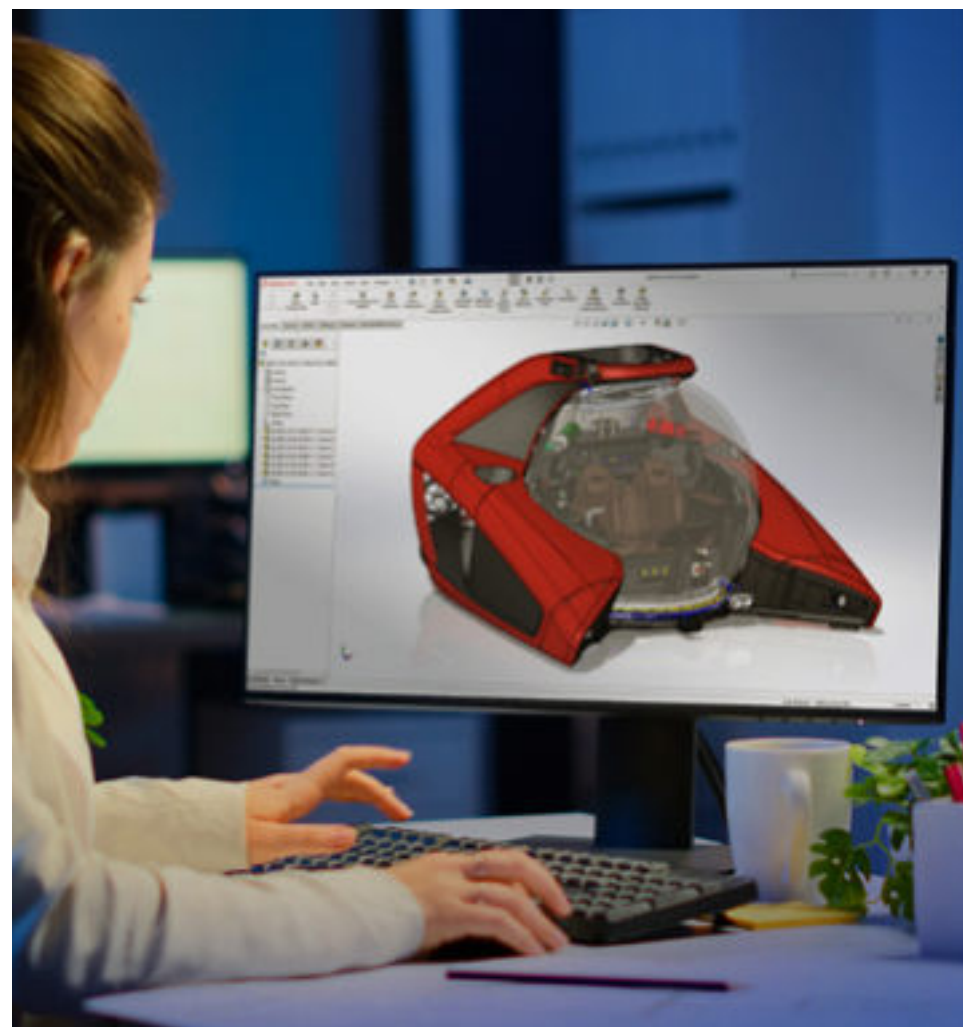
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Maintaining a single source of truth is crucial for managing complex 3D CAD projects and ensuring data integrity. Utilizing a CAD-aware cloud storage solution transforms your design process by understanding the relationships between CAD files and enhancing your ability to manage dependencies and streamline workflows. SOLIDWORKS integrates robust cloud-based data management solutions, streamlined collaboration tools, and advanced Abaqus® simulation tools, enabling you to tackle complex engineering problems and ensure your designs meet the required specifications. Effective data management is crucial for the success of any design project, and SOLIDWORKS offers intelligent solutions tailored specifically for CAD data. These tools provide secure access control, essential revision management, and automatic backups, ensuring your data is protected and easily retrievable.

Choosing SOLIDWORKS is not just about immediate benefits—it is an investment in the future of your business. Whether you are a new CAD user or an experienced professional, SOLIDWORKS equips you with the tools and insights necessary to make informed decisions and achieve your design and engineering goals.



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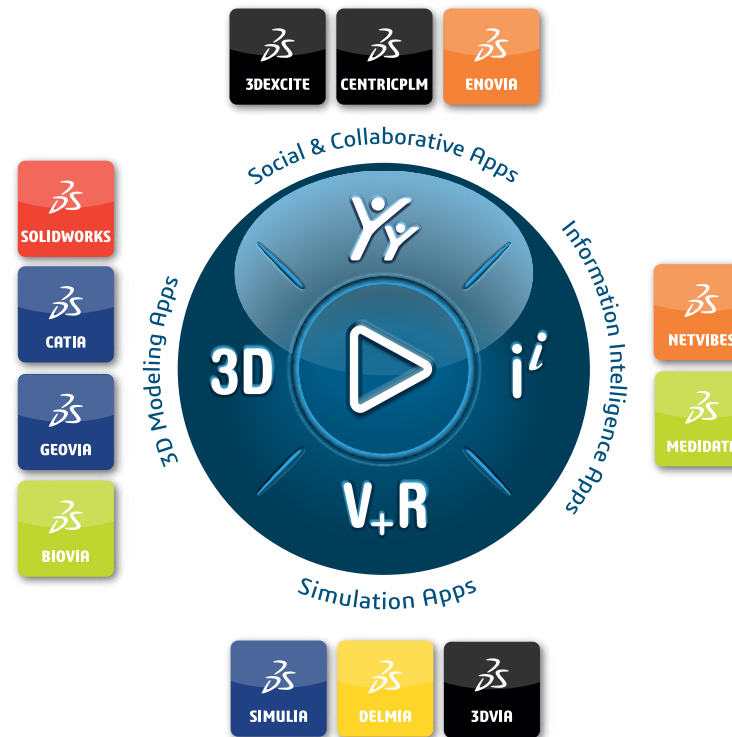
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