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-Richard Mueller
Executive Vice President/Partner
Osgood Industries.

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With Autodesk 3ds Max® software, create cinematic-quality renderings and 3D animations to market and sell your products, reducing the need for costly physical prototypes and photo shoots.

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Improve the design review process by easily transforming CAD data into compelling imagery and presentations.

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Gain more control over your design data with Autodesk Vault Basic software for managing design creation, simulation, and documentation processes.

Fusion 360
Fusion 360 is a cloud-based 3D CAD/CAM tool for product development that combines industrial and mechanical design, collaboration, and machining in a single package. The tools in Fusion 360 enable fast and easy exploration of design ideas with an integrated concept-to-production toolkit.

Design without boundaries
With a broad set of easy-to-use, interoperable design tools, your engineering design teams can work more creatively and manage their processes more efficiently. As ideas move from concept to engineering, the need to remodel concepts is eliminated as engineers can work from conceptual designs. And with everyone using a common set of tools, you improve collaboration across all phases of development.

Improve product quality and lower costs
Optimize and validate product performance before the product is built. With cloud-based Autodesk® 360 services and integrated simulation tools, Product Design Suite helps you reduce the chance of errors, validate design intent through the entire process, and select low-cost, low-impact materials to aid in sustainability. Tight integration with the 3D design software helps make it cost-effective to use simulation throughout the design process.

Collaborative data management
Avoid duplication of effort and manage all of your design data through an integrated data management system. Autodesk provides centralized data management software that enables individuals and workgroups to securely store and manage work-in-progress design data and related documents. This enables a streamlined change management system, accurate bills of materials (BOMs), and the ability to share digital models with your team, customers, and suppliers.

Communicate design ideas
Use Autodesk Product Design Suite to more easily generate and share production-ready documentation from a validated digital model, helping reduce errors and deliver designs in less time. Turn your design data into photorealistic renderings and cinematic-quality animations, helping to give you an edge over your competition and provide visually stunning design concepts to customers. Enhance engineering design review and collaboration by integrating supply chain data to create complete large-scale digital mockups.

Integrated electrical and mechanical design
Product Design Suite helps manufacturers realize the full benefits of mechatronics by enabling them to quickly create and easily maintain a single, digital model. This model connects mechanical and electrical teams by bringing together design data from all phases of development for use across all disciplines. Because the digital model simulates the complete product, engineers can better visualize, optimize, and manage their design before producing a physical prototype.

Available in Premium and Ultimate editions, Autodesk Product Design Suite includes some or all of the following software (refer to the sidebar for a specific breakdown of each edition).

Autodesk Inventor
Autodesk Inventor® software is the center of an open and connected product development ecosystem that enables you to make great products with professional grade engineering solutions.

Autodesk Inventor Professional
Build on the power of Autodesk Inventor for engineering design and manufacturing with Autodesk Inventor® Professional software, which includes tools for advanced product simulation, routed systems design, and tooling creation.

Autodesk AutoCAD Mechanical
Accelerate the creation and revision of mechanical drawings with Autodesk AutoCAD® Mechanical software, providing all the functionality of AutoCAD software plus a complete set of mechanical design productivity features.

AutoCAD Electrical
Use Autodesk AutoCAD® Electrical software to help accelerate the creation of electrical control systems by automating electrical engineering tasks and providing comprehensive symbol libraries.

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Design, collaborate across teams, and create compelling presentations.

Autodesk Product Design Suite 2017 software is a comprehensive solution for product development, delivering 3D design, visualization, and simulation tools to complete your entire engineering process. The product development tools within Product Design Suite can help you design better products, reduce development costs, and get to market faster.

Drive innovation
Develop more innovative designs with an integrated suite of tools that help to smoothly transfer information and meet the demands of each phase of engineering, from design through simulation and visualization, to production sequencing and manufacturing. Impress your product and competitive edge by integrating industrial design aesthetics into your products using a wide range of modeling tools.

**Image, courtesy of Osgood Industries.**