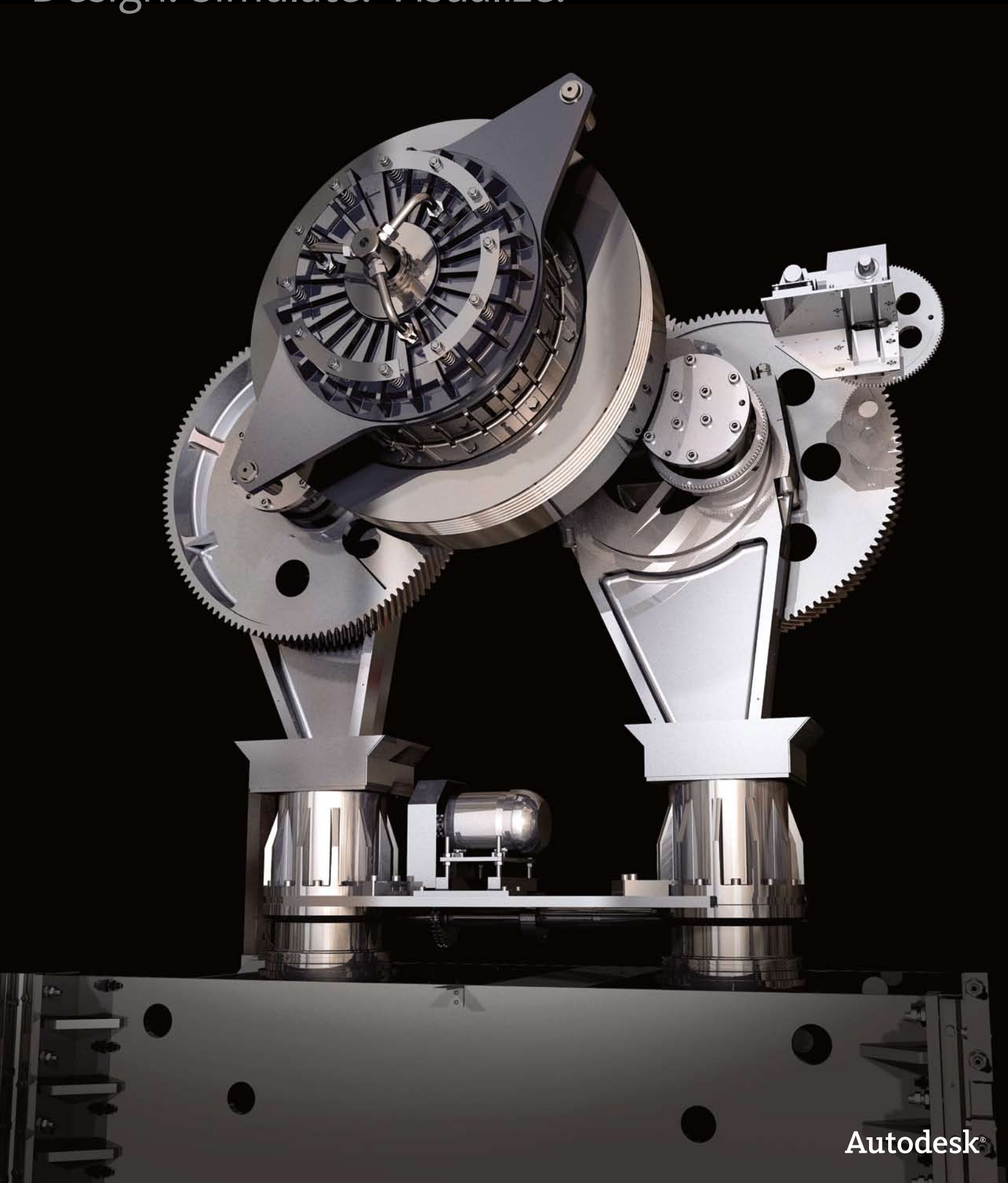
Autodesk® Inventor™ in Education

Design. Simulate. Visualize.



Autodesk®

Move Seamlessly from the Classroom to the Workplace

With Autodesk Inventor software, students spend less time grappling with geometry and more time mastering engineering and mechanical design concepts that prepare them for the real world.

Curriculum Resources

Limit course time spent on software so you can focus on teaching engineering and mechanical design. The free* Inventor Curriculum available on the Autodesk Student Engineering and Design Community provides modular exercises that are easily integrated into your classroom. It covers the basics from sketching, modeling, and documentation to advanced functionality such as routed systems design, simulation, and visualization. Autodesk Inventor software is easy to use, so students can quickly become more productive when creating designs.

Move Beyond 3D

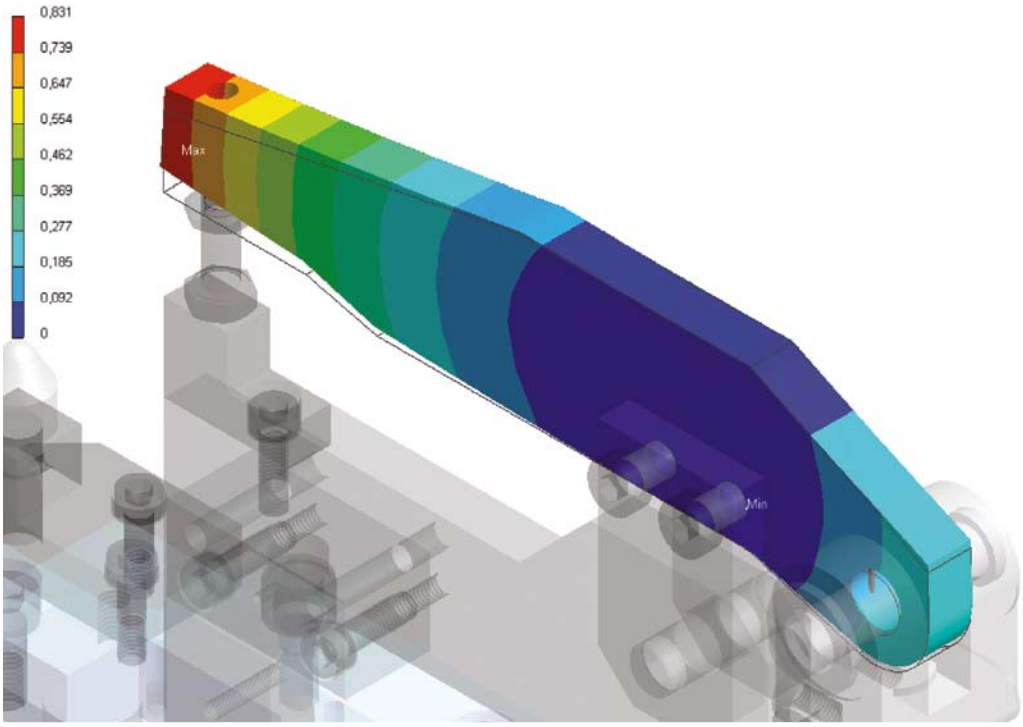
Prepare the next generation of mechanical engineering professionals with the same software and workflows used in the professional world. By learning to design and use a digital prototype, students can prepare to join companies that are moving beyond 3D—connecting conceptual design, engineering, and manufacturing teams through the use of a single digital model. This model simulates the complete product and provides the ability to visualize, optimize, and manage designs before ever producing a physical prototype. With Autodesk® Inventor™ software, students not only are using the best-selling software on the market, but are also gaining valuable experience with the software that provides the foundation for Digital Prototyping.

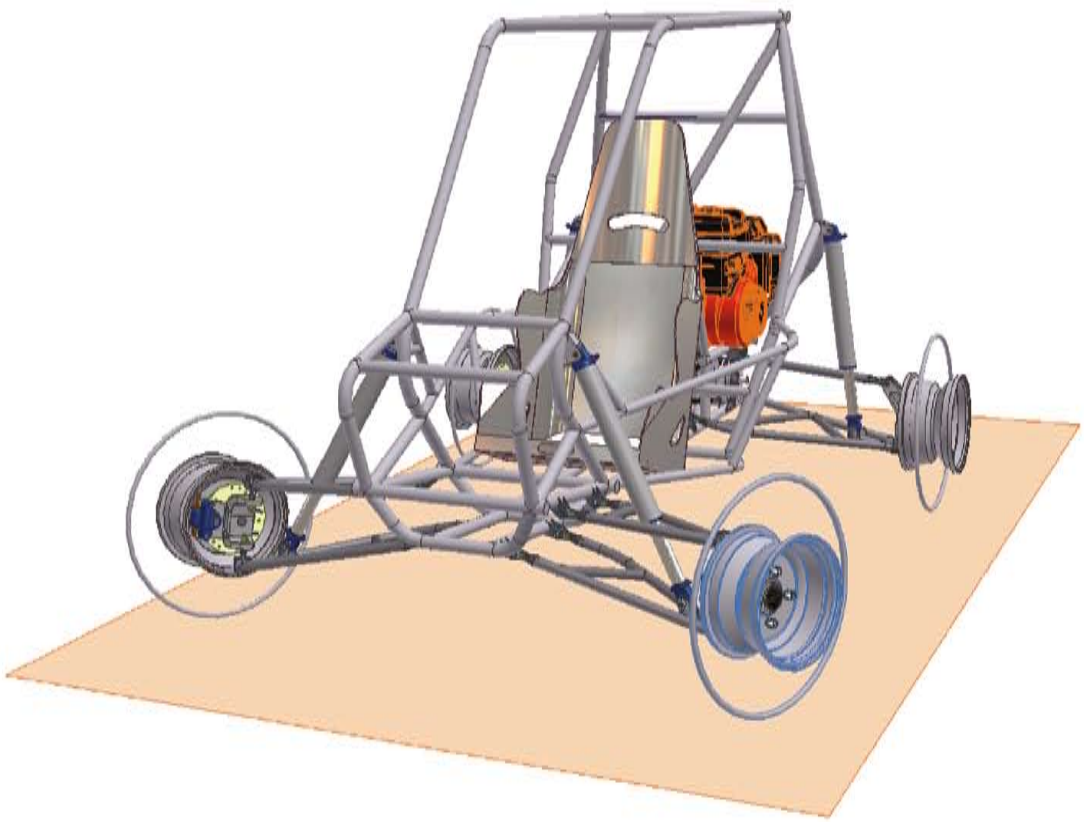
Design

Focus on function, not geometry creation. The Functional Design capabilities unique to Autodesk Inventor software enable students to begin a design by capturing its functional requirements and allowing the software to automatically create 3D geometry, rather than defining the design with a list of parametric modeling features. Instead, students can spend that time learning and applying mechanical design concepts to improve their skills.

Simulate

Validate designs before they are built. With Autodesk Inventor, students use tightly integrated simulation tools to learn concepts such as finite element analysis (FEA) and kinematics, making it possible to optimize and validate designs by developing a digital prototype. They can simulate the dynamic behavior of their design and accurately predict loads and accelerations. The FEA tool enables students to analyze their designs and avoid stress-related failures.





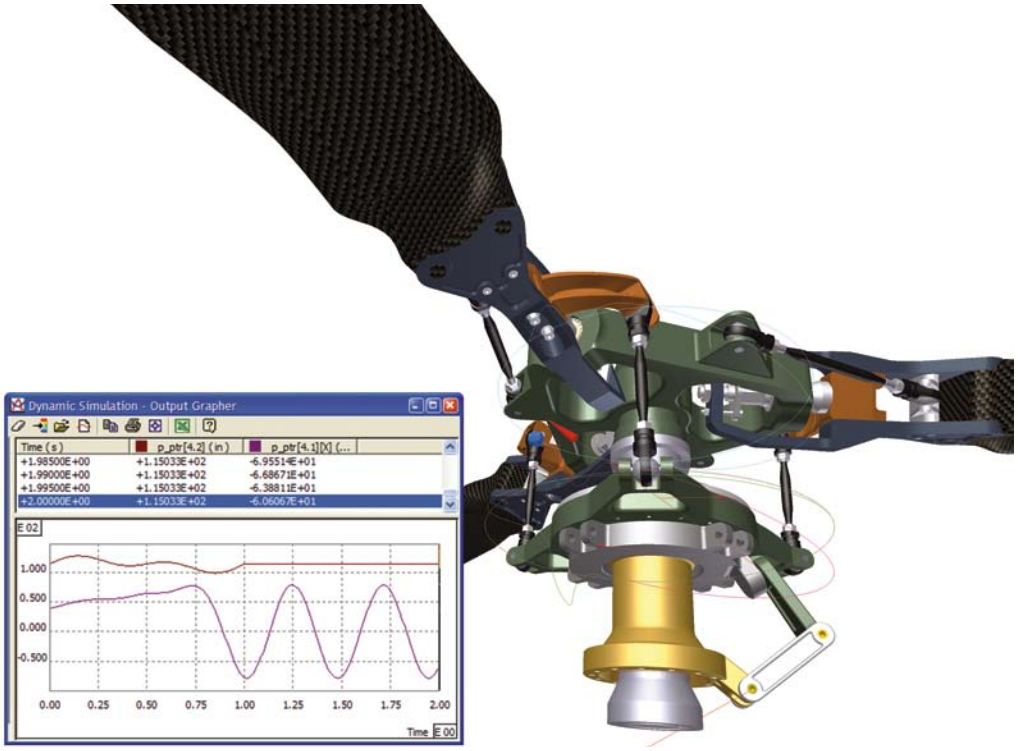
Baja Car Image Courtesy of Stony Brook University Motorsports

Visualize

Use state-of-the-art visualization tools. Autodesk Inventor enables students to create high-quality, photorealistic renderings for compelling presentations and design reports, as well as 3D animations that clearly communicate the assembly and motion of their designs.

Simplify How You Share

Facilitate effective and efficient collaboration between students, universities, and even industry. Only Inventor can read and write DWG files without the need for translators while maintaining full associativity to the 3D model. DWG TrueConnect technology simplifies the sharing of design data with AutoCAD® users. With DWF™ technology, students can share their Autodesk Inventor design data with peers and industry mentors anywhere in the world.



Online Community

Join the Autodesk Student Engineering and Design Community, a free networking site for students and faculty. On the Community, you can access and share curriculum resources, ideas, and best practices with other faculty around the world. And as part of the Community, your students can advance their skills outside the classroom by downloading a free* Student Version of Autodesk® Inventor™ Professional software as well as interactive online training courses, easy-to-use tutorials, and other learning resources.

Join today at **www.autodesk.com/edcommunity.**

Autodesk Education

Autodesk supports students and educators by providing access to powerful 2D and 3D design software, and innovative programs and resources—helping to inspire the next generation of professionals to experience their ideas before they're real. By advancing education in the key areas of science, technology, engineering, math, and visual communications, Autodesk is helping students develop crucial skills for future academic and career success.

Learn More or Purchase
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Cover rendering courtesy of Prensa Jundiaí, Brazil

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