

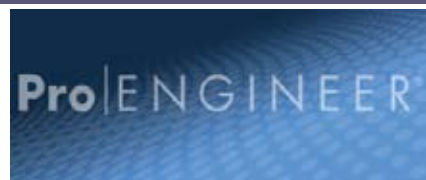
## Who We Are

Impac Systems Engineering is a 22-year old Houston based company specializing in full service engineering, product design and analysis solutions. We are a Certified Training Center and reseller for PTC. Our organization enables our customer organizations to generate immediate and sustainable value by delivering innovative engineered design solutions by leveraging the power of technology and our many years of experience. We provide custom engineering design systems with a creative development flare to companies of all sizes.

## What We Do

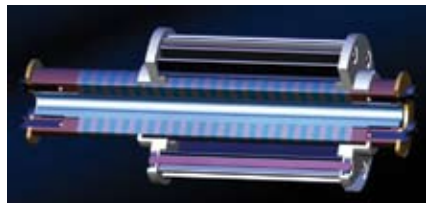
We offer engineering, drafting, design and analysis CAD systems and services. Our approach combines state of the art design tools and professional engineering expertise to exceed expectations. We provide fast, thorough, innovative solutions to your technical design tasks. We focus on three service disciplines; strategy, development and creative design. All three are crucial elements of our engagements and work in concert to plan, design, build and implement the most comprehensive design solution.

### Standard in 3D Product Design



Pro/ENGINEER is the standard in 3D product design, featuring industry-leading productivity tools that promote best practices in design while ensuring compliance with your industry and company standards. Integrated Pro/ENGINEER CAD/CAM/CAE solutions allow you to design faster than ever, while maximizing innovation and quality to ultimately create exceptional products. We live in a 3D world so why not design in 3D? Throw away your 2D AutoCAD and join the Pro/ENGINEER family.

### Foundation Advantage



Superior product design requires a successful foundation. With the Pro/ENGINEER Foundation Advantage Package, you get the critical CAD capabilities necessary to bring high quality products to market. The industry's fastest and most complete toolset, Foundation Advantage is the essential beginning solution for small and medium business as well as for larger companies broadening their 3D CAD base. Priced at only \$4,995, it stands true to its twenty year legacy of providing the best 3D design environment at a price that beats the competition.

### Advanced Rendering



Your aim is for your design to stand apart. Beyond the product's form and function is the visual impression made by your work. With Pro/ENGINEER Advanced Rendering, you can quickly create stunningly realistic product images, enabling richer marketing material, more impressive client meetings, and more compelling design reviews.

### Large Assemblies



Any assembly that is sufficiently large as to make the interaction with it slow or impossible is considered to be a Large Assembly. Large assemblies are a reality in most designs. Pro/ENGINEER is the leading 3D modeling software with respect to large assemblies. There are numerous methods to improve large assembly performance and management including the ability to eliminate parts or retrieve lighter weighted versions of parts within representations of the assembly. The ability to manage the flow of information and thus the required computer overhead make Pro/ENGINEER a preferred tool for large assembly work.

### 2D Sketching



Two Dimensional Sketches are created with Pro/ENGINEER using an extremely intuitive intent based sketcher. Users quickly learn that natural human assumptions (for example right angles and equal length) become sketch assumptions controlling the dimensioning scheme of the sketch. This sketcher also automatically dimensions sketches ensuring that no sketches are over or under dimensioned. Conceptually moving from 2D – 3D simply requires sketch creation and selection of an icon driven command determining how best to move the sketch through space.

Have you looked at PTC lately? We are not more expensive and we are easy to use!

# PTC Pro/Engineer Wildfire

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## Advanced Assembly



Only infrequently does a design consist of a single part. Inevitably, work involves creating and managing an array of components and sub-assemblies. Pro/ENGINEER Advanced Assembly enhances the productivity of distributed teams with capabilities for design criteria management, top-down assembly design, and assembly process planning. Benefits include: more flexible designs, improved technical documentation, and accurate fabrication instructions.

## 3D Modeling



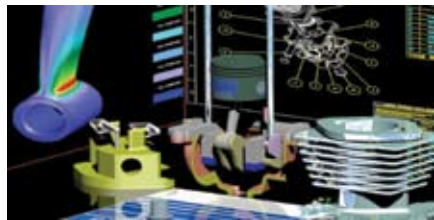
3D Modeling is the creation of volumetric objects representing the size, shape, and mass of physical components. Within Pro/ENGINEER 3D objects are typically created by moving a 2D sketch through space via an icon driven command. This results in a virtual 3D volume representing an objects size, shape, and mass. 3D modeling allows the creation of virtual assemblies that are invaluable in the design process to simulate the form and fit of real world designs and allow for numerical analysis and clearance/interference checking.

## Freeform Surfacing



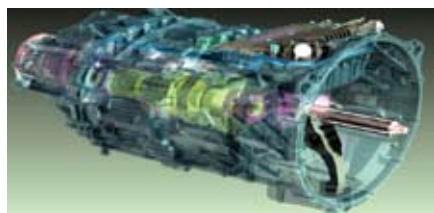
Form and function brought together. With freeform surfacing, designers and engineers can quickly and easily create highly precise product designs. Combined freeform and technical surfacing means no data transfer between design and engineering. Design precise surfaces to achieve highly-engineered, manufacturable products. Intuitive user interface provides maximum feedback and allows rapid and extreme product design. Create products that look better, sell better, and get to market faster.

## Production Drawings



Production Drawings are 2D documentation of parts and assemblies. Pro/ENGINEER frees users from the more mundane tasks normally associated with drafting. Users create drawings by manipulating views of 3D models already created through the design process. Drawings are fast, accurate, and often automated. Drawings are associative to Parts and Assemblies. Thus changes at any level update the drawing automatically. Let us show you how Production Drawings can become an automatic byproduct of your natural design work instead of a tedious and expensive task.

## Manufacturing



Manufacturing or computer numerical controlled machining allows for computer driven material removal through common processes such as milling, turning, cutting, etc. Pro/ENGINEER parts and assemblies represent a 3D volume. Pro/MANUFACTURE produces a tool path from this 3D volume specifically compiled for a certain manufacturing process and machine. This is associative to the part or assembly thus changes to the model produce an updated tool path and finally an update part. This method of manufacturing has revolutionized the manufacturing process.

## Simulation Analysis



Simulation Analysis is the process of approximating the real world behavior of a part or assembly. Typically physical laws and assumptions are applied to 3D models along with boundary conditions representing the environment surrounding the model. Common simulation analysis such as rigid body dynamics, elastic body finite element analysis, thermal analysis, and tolerance analysis can all be created within the Pro/ENGINEER parts and assemblies. These analyses can be associative thus will follow changes made to the model on which they are based. Additionally, sensitivity, feasibility, and optimization design studies can be used to change or drive parameters within the model, repeating the simulation analysis in an iterative approach to produce graphs of a dimension vs. a calculated result and/or improved geometry.

## Impac Systems Engineering