

Engineering Design Services

Who We Are

Impac Systems Engineering is a 25 year old Houston based company that has been their customer's resource for solving engineering challenges. Typically, these solutions have saved them time and money.



What We Do

Impac Systems Engineering offers full service engineering, drafting, product design and analysis. Our approach combines state of the art design tools and professional engineering expertise to exceed our customer's expectations.

How We Do It

Our engineering services team of professional licensed engineers and certified trainers work with our customers to analyze the challenge, generate a design, construct the solution and implement it successfully - exceeding our customers expectations.

Why We Do It

We want to provide significant competitive advantages to our clients:

- Ability to mitigate technology risk
- Accelerate time-to-market
- Substantial cost reductions
- Fast, reliable integrated solutions
- Virtual extension of your own operations
- Customized solutions
- Innovative and sophisticated applications
- Real time response to inquiries and service requests
- Infrastructure enhancements

Client Satisfaction

Our ability to demonstrate and deliver a clear return on investment maximizes customer satisfaction.

Technical Capabilities

Mechanical Product Design & Development

Impac Systems Engineering provides all types of mechanical product design with specialties in electronic packaging, heavy equipment, hydraulics, composite materials and mechanism development.

Structural Analysis & Design Optimization

We provide adaptive p-element finite element analysis and design variable optimization through the use of Pro/Mechanica Structure.

Styling & Surfacing

Style is only relevant if it can exist in a reasonably manufactured product. We are able to see the product before it becomes a reality.

Reverse Engineering

We transform existing physical products into digital models enabling productive use of existing intellectual property.

Tooling

Toolmakers can begin their work early directly referencing the 3D design to develop tooling concurrently, knowing that design changes will appropriately update all tooling deliverables.

Structural, Thermal, Motion

Our new product development process includes high quality product design decisions and a sound understanding of product performance under actual operating conditions.

Mechanical Systems

Impac Systems engineers ensure that machinery and industrial equipment are brought to life effectively given their high-levels of assembly and routing sophistication.

Electrical Systems

We design electrical systems components accurately, cost effectively and on schedule.

Sheetmetal

Sheet metal manufacturing results in high levels of scrap and manually conducted repetitive operations. We create and optimize toolpaths using standard and form tools to reduce scrap, material costs and shorten lead times.

Mold Design & Filling

We simulate the plastic filling process for injection molding so that we can design for manufacturability, uncover problems, propose remedies, thereby reducing development time and expense.

Our Vision

Impac Systems Engineering strives to be your resource for solving engineering challenges.