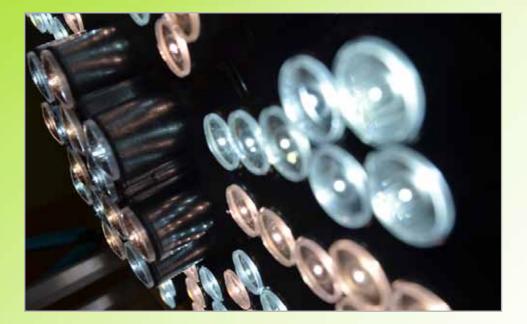


We provide product development services that will bring your ideas to life.

From all the intricacies of industrial design to the complexities of engineering, our original design ideas and unique solutions challenge the status quo and disrupt the expected. Creativity is carefully balanced with technology and solid engineering resulting in innovative, award-winning, marketable products.

Smart fresh design, solid engineering, award-winning results.

Designspring Brings Innovation to Market.



DESIGNSPRING, INC.

THE MILL, 49 RICHMONDVILLE AVENUE, SUITE #310, WESTPORT, CONNECTICUT 06880 TEL +1.203.226.5104 | FAX +1.203.222.7051 | www.designspring.com | info@designspring.com

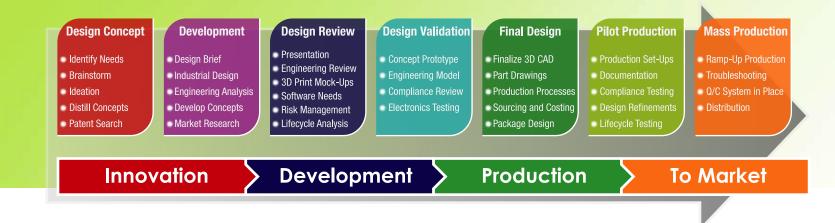
Our Team | Our Approach

The Designspring team is comprised of designers, engineers, scientists and researchers—all who think beyond traditional limits and bring curiosity and creativity to each project. Their passion and dedication drives them to find the best outcome. Sometimes the status quo is disrupted and the unexpected becomes apparent.

A clear comprehensive development program suited to your requirements, with set timeframes and budgets can be created. From start to finish, we guide our clients through the maze of product development which can seem complicated at times.

Typical Product Development Phases

Project Identification & Brainstorming Design Brief Developed Competitive Market Review Concept Selection, Development & Refinement Design Engineering & Development Risk Management Prototype Proof of Concept Testing Documentation- ISO 9001 Standard Pilot Production | Production





Capabilities | Services

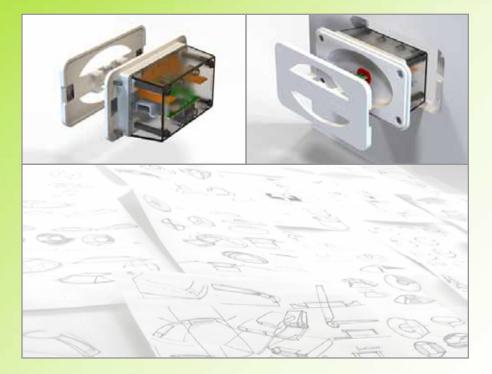
We can work as your outside R&D department or we can be integrated into your company and work with your in-house staff.

Research

Market | User Research Review Regulatory Requirements Feasibility Studies Patent Search | Navigation Sustainability Ergonomics | Human Factors Identify New Technologies Lifecycle Analysis Materials Investigation Manufacturing Processes

Industrial Design

Concept Ideation | Brainstorming Product Specification Design Concepts Concept | Form Development User Interface Design Materials Investigation | Evaluation Vendor Sourcing & Costing Lifecycle Analysis 3D Computer Modeling Photorealistic Renderings 3D Printing | Prototyping Proof of Concept Testing Model-Making | Photo Ready Model Product Documentation





Capabilities | Services



Marketing Support

Market Research Photorealistic Renderings Mock-Ups | Photo-Ready Models 3D Printing | Prototyping Brand Identity | Management Product Packaging

Compliance & Regulatory Affairs Certified ISO 9001



Pilot Production | Manufacturing

Product Specification Bill of Materials Final Part and Assembly Drawings Assembly Instructions Component Specifications - Materials, Processing, Colors, Textures, etc. **Compliance Testing** Maintenance | Service Manuals Manufacturing Specification **Design of Special Tools and Fixtures Tooling Refinement Recommendations** Assist in Setting up Quality **Regulatory Standards Protocol** Establish Production Procedures First Article Inspection and Sign Off **First Assembly Validation and Sign Off**

Engineering

Mechanical Engineering Electrical Engineering Software Development Embedded Systems - Control, Product Monitoring Automatic Control System - Design and Implementation Finite Element Analysis Thermal Management Optics | Lens | Reflector Design Patent Navigation | Documentation UL | ETL | CSA Evaluation CE Marking



Designspring Brings Innovation to Market.

Medical Lighting Consumer Commercial

www.designspring.com





Case Study

Optimus I Integrated Surgical Environment

Our challenge

Re-imagine today's Operating Room into the first fully Integrated Surgical Environment that is simple, safe and sterile.

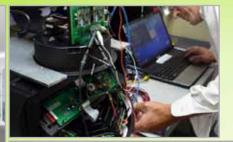
How we did it

Every OR has several mandatory and patient critical systems in common. Extensive research, interaction with end users, prototyping and trials in our state-of-the-art mock surgical suite helped us to determine the essential requirements of these systems and distill down to the basic interactions of the whole. The results lead us to a reduction of clutter, improved efficiency, logical interaction and an intelligent leap in surgical support technologies.

Innovative designs include

- Retracting floor pods that serve as docking stations for critical equipment electrical and gas connections.
- LED lighting system comprised of ceiling mounted remote controlled providing shadow-free, variable intensity and variable color temperature control. Secondary beam design provides focused deep wound illumination.
- RFID pass-through supply cabinet to monitor inventory within the OR.
- Built-in trash disposal system to segregate post-surgical hazardous waste.
- Whole room disinfection via a patented ozone system.
- Sink trap that eliminates potential infectious hazards within the scrub sink.
- Smart-power system; monitored and controlled by embedded software.
- Integrated, remote controlled system for efficient use of space, excellent ergonomics and unsurpassed sterile procedure.

As a result of these and other innovations the Integrated Surgical Environment is a reality... simple, safe, and sterile.















Case Study

Adapt Media | Taxi Advertising Display

Adapt Media approached us to design and engineer a taxi roof-mounted combination LED/LCD advertising display system with the capability of broadcasting advertising campaigns in real-time via GPS and cellular network.

The initial challenge was to create a distinctive appearance combined with the important elements of reduced aerodynamic drag, accessibility of internal components for easy part replacement, simplified construction, reduced weight, thinner cross-section and lower cost.

The biggest challenge we faced was the environment in which these Crown Victorias would travel -New York City- one of the harshest environments around. Smog, potholes, hurricane rain levels, and winter icing effects, vibration, etc., were just some of the problems faced.

Concurrent with the design direction, engineering tasks included mounting issues/ structural support for the unit, a cooling system for heat dissipation, wiring and cabling, gaskets/ weather sealing, providing screen visibility in daylight, shock and vibration minimization, and power consumption (custom alternator was designed) all of which were solved. Intense attention was placed on testing.

In the end, with close communication with our client and the high level of expertise we provided, the unit went far beyond all expectations of the client. Addendum—the custom designed high-output alternator became standard equipment in police car packages.







