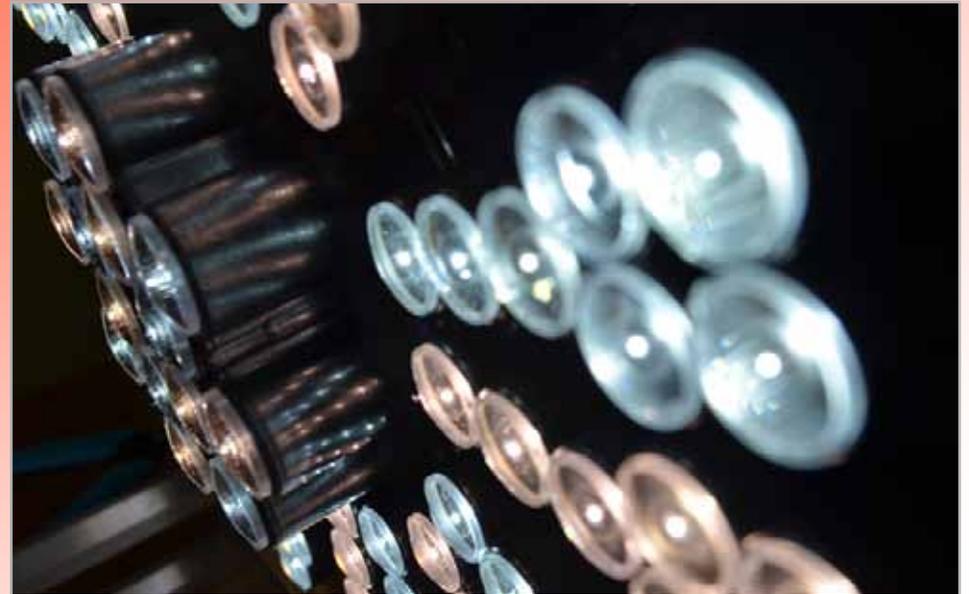


We provide product development services
that will bring your ideas to life.

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.

Ferox Designs Bring Innovation to Market.



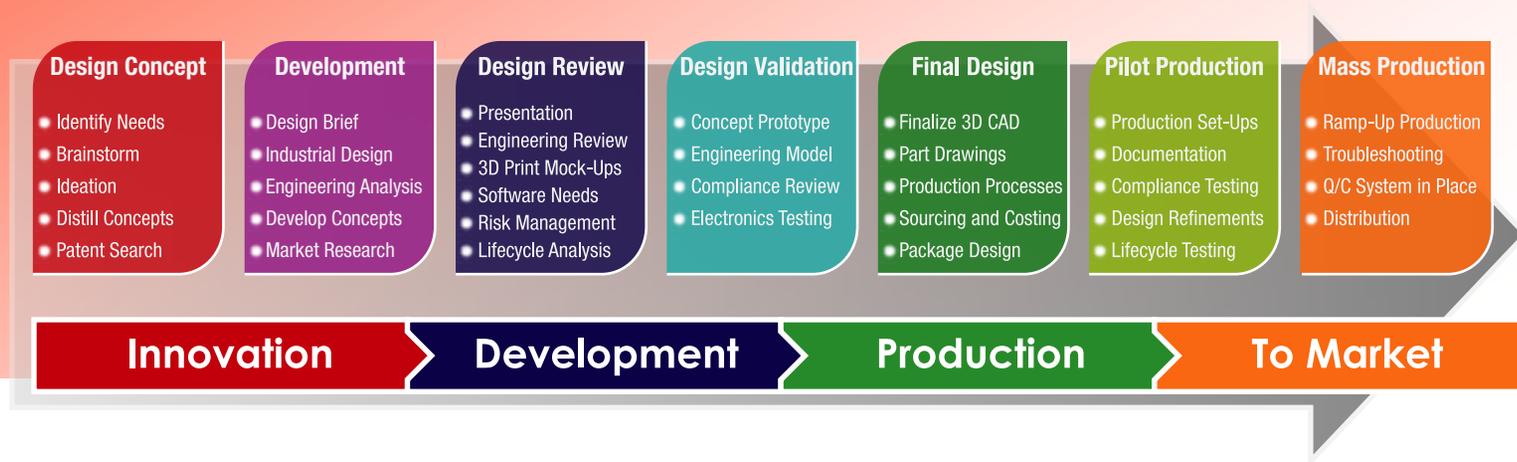
Our Team | Our Approach

The Ferox Designs 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

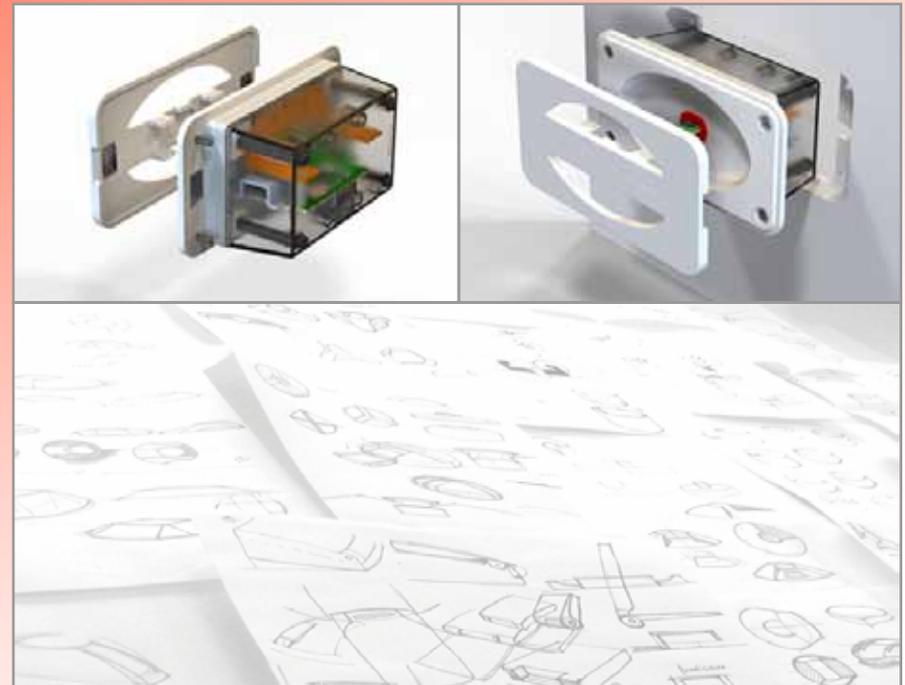
We can work as your outside R&D department or we can be integrated into your company and work with your in-house staff.

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

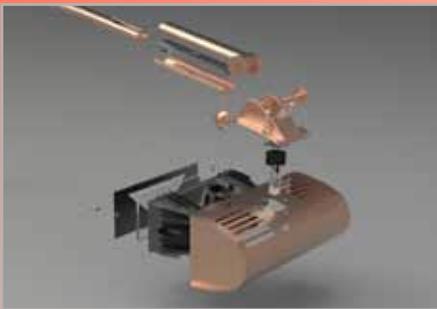


Capabilities | Services



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

Software

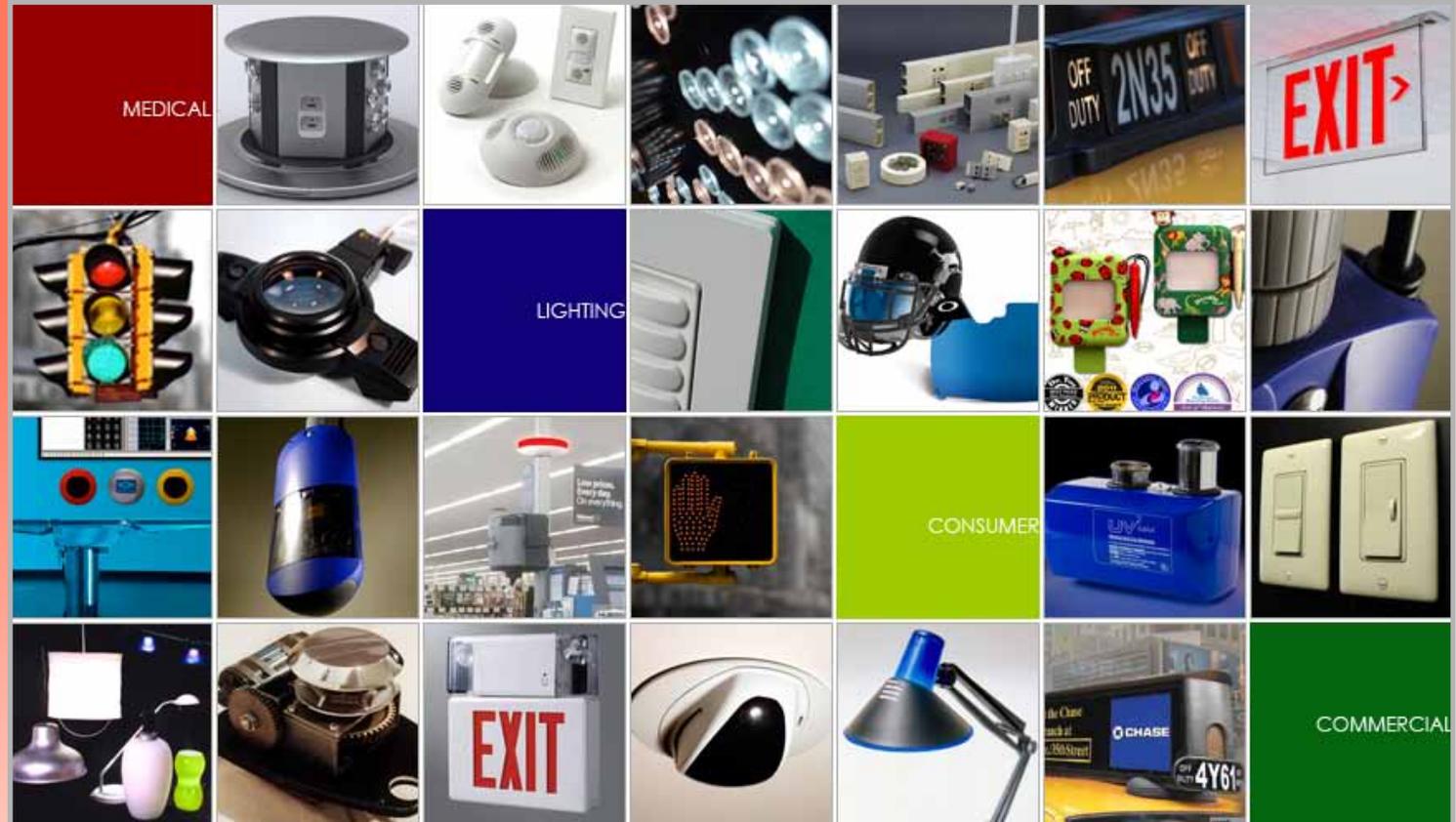
- Custom software
- Mobile App development
- Embedded systems development
- Custom database solutions
- Data analytic, model generation
- Security and encryption software
- Parallel processing solutions
- GUI design
- Firmware development
- Compliance IEC 62304, IEC 60601
- Customization of existing systems
- Migration to new platform
- Embedded systems

Portfolio

Ferox Designs Bring
Innovation to Market.

Medical
Lighting
Consumer
Commercial

www.feroxdesigns.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.

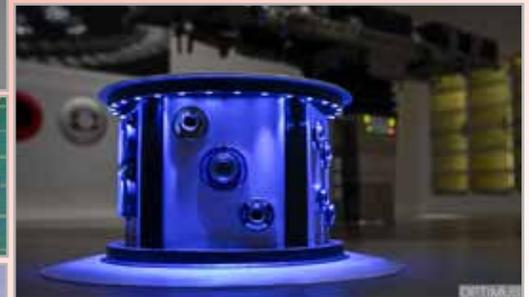
How we did it

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.



Some of Our Clients



Unilever

pepsi



LIGHTOLIER



Tupperware®



GENERAL
FOODS



STANLEY

COOPER

Powerwinch

PHILIPS
ALKCO



3M

Nessen LIGHTING



dac

THE LIGHTING QUOTIENT