

Engineering Services: Focus on Product Development



Been There. Done That. For Hire.

Triple Ring is a contract engineering and pilot manufacturing firm with rich experience in product development, including several first-to-market devices that range from the very small (micro-fabricated sensors) to the very large (CT imaging systems) and embodying simple but clever design solutions to highly sophisticated electro-opto-mechanical systems.

Ideas. Prototypes. Production.

Product Definition

Triple Ring's engineers will guide you through a systems approach to clarifying your product vision. This process results in a well-defined path for realizing a product concept; provides focus on the high-risk technical, market, and regulatory challenges; and enables rapid development of proof-of-concept prototypes.

Product Design

Triple Ring's process embodies a disciplined, data-driven approach to design, enabling our engineers to retire risks and efficiently converge on solutions to key design challenges and human factors considerations.

Product Development

Whether a new product development program, a re-design for cost reduction or DFM/A and reliability, Triple Ring ensures product Cost and Performance targets are met through product design for ease of assembly and high yield manufacturing processes.

Understand. Simplify. Accelerate.

Triple Ring has offices serving Silicon Valley and Boston. The headquarters in Newark, CA are housed in a 41,000 sq. ft. facility that includes dedicated laboratories for electronics, optics, radiation source development, and mechanical prototyping; a machine shop; client office space; and a pilot manufacturing facility. For more information contact us at info@tripleringtech.com or visit us at www.tripleringtech.com.

What We Deliver

Project Management and Engineering

- Product Definition and Analysis
 - System architecture definition
 - Modeling and simulation
 - Product and Project risk analysis
 - Tools: MathCad, MATLAB
- Electrical, Optical, and Software Engineering
 - Desktop applications to complex embedded systems
 - Mission-critical applications
 - Analog, digital, mixed-signal design
 - High-speed data acquisition and processing
 - MPPA and FPGA programming
 - Tools: Orcad, Allegro, PADS, Zemax, TracePro
- Mechanical engineering
 - Mechanism and package design
 - Low- to high-volume plastic and metal component design
 - Tools: Solidworks, Pro-E, Mechanical
- Systems engineering
 - Human factors and industrial design
 - DFM/A, Six Sigma and QFD for design and manufacturing
 - Verification and validation
 - Packaging and sterilization
 - Statistics and data analysis

Design and Quality Control

- ISO 13485-compliant quality system
- Regulatory strategy and certifications

www.tripleringtech.com