



Advanced Systems Innovation

Designed. Developed. Delivered.



Overview

Established in 2007, Ellipse Advanced System Innovation brings over 15 years of experience in advanced RF-based system design, development and implementation.

Our management team includes founders of companies such as Gilat, Motorola, and Mobileye, combining decades of global experience and technological leadership.

With full end-to-end execution, from architecture and development to validation and production, all under one roof, we support complex system development across advanced technology sectors.

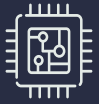
The following presentation provides an overview of our capabilities and approach.



Ellipse In a Nutshell

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What we do



We provide full-cycle solutions, from system architecture to prototyping, testing, and scalable manufacturing, all in-house.



Our teams work across RF, embedded software, digital electronics, mechanical design, and system-level integration, enabling clients to accelerate development, reduce risk, and deliver higher-performing products.



Our Markets



Defense & HLS



Aerospace



Robotics



Maritime



We Go Beyond

What Sets Us Apart

Multidisciplinary engineering under one roof

One integrated team reduces friction, hand-offs, and delays.

Real-world field experience

Engineers who design with operational reality in mind not just lab conditions.

Stronger system architecture

Balanced solutions across RF embedded, mechanical, and digital domains.

Fast, adaptive execution

Short iteration cycles, rapid prototyping, and direct communication.

Custom engineered solutions

Designed around the client's requirements constraints, and environment.

Seamless design to production

Smooth transition from concept to prototype to manufacturing.

Full project ownership

A partner accountable for the entire system, not isolated components.



Expertise Across Every Layer



System Architecture

- Concept definition
- Requirements
- Interfaces
- Integration planning



Electronics & RF

- RF design, digital & power electronics
- High-speed & RF board design



Embedded & Software

- SW Embedded
- Networking
- Special Algorithms
- FPGA & DSP
- Testing Automation
- SW control & management



Mechanical & Thermal

- CAD
- Simulations
- Environmental design
- SWAP optimization



Testing & Validation

- ATE
- Test plans
- Verification
- Environmental & Reliability Testing



Quality & Grade Certifications

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Grade & Military Compliance - AS9100

(Aerospace Quality Standard):

- Specializes in the design for and qualifying Mil-STD systems:
- MIL-STD 810
- MIL-STD 461
- MIL-STD 1275/704D/1399
- AS9100D:2016

On-site ESS, HASS and an X-RAY machine for PCB

- ISO9001:2015
- ISO13485:2016
- Our Production employees are certified for:
- IPC610
- IPC620
- IPC7711/7721
- IPC/EIA-J-STD-001



Our Mission

Advanced Systems. Designed. Developed. Delivered.

To empower our partners with decisive technological advantages through advanced system design, development, and delivery.

We transform complex requirements into breakthrough solutions across defense, medical, robotics maritime and industrial sectors, bridging the gap between cutting-edge innovation and mission-critical implementation.



Let's Talk



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