

2026



# ADVANCED SOFTWARE SOLUTIONS FOR MEDTECH AND DIGITAL HEALTH

Since **2003** we've been helping companies and startups turn ideas into high-performing, safe, and market-ready medical products.

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# Trusted partner for MedTech innovators

NRGsys designs and develops **original, technically advanced software** for medical device manufacturers, startups, and research centers.

Combining **software engineering, design, and domain expertise**, we translate advanced technologies into reliable, intuitive solutions seamlessly integrated with clinical workflows.



## Medical software development



## Research and technological innovation



## Modular and scalable architectures



## User-centered UX and workflows



## Long-term, transparent partnerships

# Traceable, compliant development to the highest standards

**ISO 13485 compliant** and certified since 2020 as an innovative SME in medical software design and development. We use documented, validatable, audit-ready processes.

**Our work complies with GDPR, MDR, and FDA 21 CFR 820.30 from day one.**

# Engineering-driven, user-centered, scalable

Every project is developed with technical rigor and uncompromising quality, from analysis to implementation. We follow a **full-cycle development** approach that integrates engineering, UX, and validation within a single agile and traceable workflow.

## REQUIREMENTS ANALYSIS AND DEFINITION

# SYSTEM ARCHITECTURE AND DESIGN

## DEVELOPMENT AND TESTING

#### VALIDATION AND CONTINUOUS IMPROVEMENT



# Technology, precision, and scalability

Core skills:

- Cloud & microservices
- DICOM & medical imaging
- AI / Data science
- AR/VR/MR
- Medical IoT
- 3D rendering & advanced UX

**Tech stack:**

C# / .NET / Blazor | JavaScript / TypeScript / React |  
Azure / AWS / .NET Aspire | PostgreSQL / MongoDB /  
Redis | API REST / GraphQL

# Experience, quality, and tangible results

## Software for devices, platforms, and research

### Medical devices and consoles

Imaging, guided surgery, and diagnostics.

### Cloud and IoT platforms

Integrated solutions for clinical data collection and analysis.

### Algorithms and artificial intelligence

Prototypes and decision-support tools.

### Immersive applications

AR/VR/MR for simulation and surgical planning.

### Research and development

PoCs, MVPs, and co-design with academic partners.

# Software Design Contractor

We support the **design control process** end to end:

- defining functional requirements,
- designing the software architecture,
- developing and verifying code,
- validating and documenting the software.

We work within an ISO 13485-certified QMS, partnering openly with clients' regulatory teams.

1

### DEVELOPMENT OF NEW, CERTIFIABLE PRODUCTS

Software for medical devices in Classes IIA, IIB, IIIC.

2

### REVAMPING AND NEW FEATURES

Updates, optimization, and porting of existing software.

3

### REGULATORY & TECHNICAL SUPPORT

Documentation outsourcing, process review, and client QMS integration.

4

### R&D MEDTECH

Proof of Concept, MVP, AI, AR/VR/MR, IoT and 3D medical imaging.

# An ecosystem of expertise, a single technical direction

Complex technological projects rarely involve software alone.

NRGsys acts as the **technical and architectural lead**, coordinating internal expertise and long-standing collaborations with selected excellence partners.

Our value lies not in adding competencies, but in **governing complexity**, ensuring coherence, engineering quality, and a long-term vision.

## Integrated HW · FW · SW systems

We coordinate the development of **complex hardware–firmware–software systems**, working with specialized partners in electronics and firmware.

- Overall system architecture design
- Development of control, supervision, and configuration software
- Seamless integration between hardware, firmware, and software platforms

Outcome: a single technical point of control, reduced integration risks, and greater control over quality and scalability.

## Mobile applications as system extensions

Mobile applications are not standalone products, but **operational interfaces** of broader systems.

We develop mobile apps (native or cross-platform) integrated with backends, devices, cloud platforms, and industrial infrastructures, with strong attention to UX, performance, and reliability.

## Cybersecurity by design

Security is a structural part of system architecture.

In collaboration with specialized partners, we integrate cybersecurity by design across all solutions from architectural design to the protection of data, devices, and infrastructures.

NRGsys acts as a **trusted technical partner**, able to:

-  **ORCHESTRATE MULTIDISCIPLINARY EXPERTISE**
-  **ENSURE INTEGRATION AND ENGINEERING QUALITY**
-  **SUPPORT CLIENTS FROM INITIAL CONCEPT TO COMPLETE, EVOLVABLE SOLUTIONS OVER TIME**

Do you have  
a complex  
project to  
develop?  
**Let's talk.**