



# ICTERRA

Excellence in Software Engineering

# 25+ years

International | Multi-cultural  
Multi-disciplinary  
Project Experience

## ABOUT ICTERRA

ICterra is a Software Engineering Company with 200+ software professionals and offices in Ankara, Istanbul, London, Munich.

We combine more than 25 years of software development experience with technology expertise and proven methodologies to provide Software Solutions to our customers. We have been building long lasting strategic partnerships with our customers across multiple industries such as Aviation, Defense, Energy, Medical, and Telecommunications.

## MEDICAL & HEALTHCARE IT

### Artificial Intelligence

- Machine learning models & deep learning frameworks
- Biostatistical modelling & validation on clinical registries
- Data recognition, elimination and augmentation techniques

### Tele-Medicine

- DICOM, IHE, HL7 / FHIR, HIPAA compliant solutions
- Image & signal processing
- Web RTC infrastructure
- Certified cyber security services & architecture

### HEALTHCARE IT



### mHealth

- Mobile application development on iOS & Android platforms
- Mobile UI/UX for effective standard compliant HMI

### Io(M)T

- Connected devices
- Remote monitoring
- Hyper-vigilant decision support & diagnostics
- Big data & time series analysis

## FOCUS ON FUNCTIONAL SAFETY



MISRA C/C++



Embedded Development



Model Driven Development



Defensive Programming



Safety Analysis (FMEA / FMECA)

# NORM COMPLIANT MEDICAL DEVICE DEVELOPMENT

**MDR 745 Medical Device Regulation**  
**IEC 62304 Software Life Cycle Processes**  
**ISO 14971 Risk Management**  
**IEC 62366 Application of Usability Engineering**

## "MADE" in ICTerra

Developing ready to use building blocks for your next medical solution

### Medical Application Development Environment

- open + recompilable platform for scalable production
- modular mix'n'match components & service interfaces
- enforced code quality

## Mastering Interoperability In Healthcare IT

- DICOM Services
- IHE Profiles "Radiology & IT"
- HL7
- HIPAA (PII + PHI)

## SYSTEMS ENGINEERING AND IV&V

- Requirements Engineering
- V-Model-Agile practices
- Requirement Based Verification
- HIL & SIL Simulations

- Coverage Tests
- Test Automation
- Full Traceability



## TECHNOLOGY STACK



## REFERENCES

**aselsan** | Device Application Development



MADE (Medical Application DevelopmentPlatform )



[www.icterra.com](http://www.icterra.com)



[blog.icterra.com](http://blog.icterra.com)



[info@icterra.com](mailto:info@icterra.com)

### Ankara

Galyum Blok Kat:2 No:3  
ODTÜ Teknokent, 06531  
Ankara, Türkiye  
Tel : +90 (312) 292 5000

### İstanbul

Sanayi Mahallesi, Teknopark Bulvarı,  
No:1/1C 1503 34906  
Pendik-Kurtköy İstanbul, Türkiye  
Tel: +90 (216) 225 3345

### London

Suite LP37826  
20-22 Wenlock Road  
N1 7GU, London, UK  
Tel: +44 203 695 88 89

### Munich

Parkstadt Schwabing,  
1st floor Marcel-Breuer-Str.  
15, Munich, 80807, Germany  
Tel : +49 89 59 08 - 1255



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