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, İstanbul, 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.

COMMAND AND CONTROL

ICterra is a competent actor in Turkish Defense Industry by its deep experience in software development/verification for Air Defense Gun and Missile Systems, Electro Optical, Fire Support, Air Defense and Tactical Communication Systems.

We provide reliable and secure software solutions by the utilization of national and international standards for interoperability.

- Model based development
- Real time embedded software development
- Controller software for Remote Controlled Weapon Systems and Electro Optical Systems.
- Radar/Controller Software simulators
- Video grabbing and streaming facilities
- Designing/Implementing protocols over TCP/IP, RS232, RS422, CanBus
- ASTERIX protocol (CAT007, CAT253, CAT048) encoding/decoding
- EthernetToCan driver implementation
- RFC 4175 (RTP Payload Format for Uncompressed Video) protocol implementation
- Network communication inspection and verification
- Embedded software verification
- Functional and System Integration Tests
- Test automation
- Device security/utility solutions

Operating Systems

- Green Hills INTEGRITY-178
- Wind River VxWorks
- Linux, Embedded Linux
- FreeRTOS

Frameworks/Libraries

- QT
- Boost
- OpenCV Library
- GStreamer

Development Methodology

- RTCA DO-178 B/C compatible software development
- Model driven development with IBM Rational Rhapsody
- Agile software development for embedded software

Simulator development for embedded systems

- Software-In-The Loop
- Hardware-In-The-Loop

Communication Protocols and Middleware

TCP/IP, UDP
RS-232, RS-422
Bluetooth

DDS
MQTT
AMQ
PCAPP

ARINC 429
MIL-STD-1553
CAN Bus

Programming Languages / Tools

C/C++ compatible with
MISRA C & MISRA C++ standards.
Java, C# and Java script for
display services

TestComplete
Ranorex
Selenium

WireShark
Hyper Terminal
Packet Sender

REFERENCES

aselsan

Embedded Software Verification Tests:
•Stabilized Advanced Remote Weapon Platform (SARP)
•New Generation Fire Control System (TAKS)
•Remote Controlled Stabilized Machine Gun System (STAMP)
•Remote Controlled Stabilized Naval Gun System (STOP)

Verification of Air Defense Command and Control System in projects:
•Self Propelled Air Defense Gun System (KORKUT)
•Low Altitude Air Defense Missile System (HISAR-A)
•Medium Range Air Defense Missile System (HISAR-O)
•Air Defense Early Warning Command and Control System (HERİKKS)

Taking part in software development for the projects:
•Anti-Drone System (IHTAR)
•Electro-Optic Sensor Systems (Thermal and Daylight) Controllers

Simulator Development for Mobile Search Radar

Modernization of Survey Communication Center Project

ICTERRA
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CMMI DEV/3
ISO 9001 ISO 27001 ISO 14001