

Overview

TAE LCO, with its expert team who have accumulated knowledge and experience in different fields, provides a wider range of technical solutions and services to its customers.

Fields of Expertise

► Experience

- ▮ TAI HÜRKUŞ-II (Training and Aerobatic Aircraft)
- ▮ Airbus A400M (Military Cargo Aircraft)
- ▮ Airbus A320, Airbus A340 (Passenger Aircraft)
- ▮ F-16 EWPOD and ESPOD (Central Station Pod)

► Mechanical Analysis and Design

- ▮ Offering aircraft and spacecraft analysis & design solutions compliant to recognized international standards (military and civil).
- ▮ Static Analysis (Strength, Stability, Aeroelastic etc.)
- ▮ Dynamic Analysis (Normal Mode, Forced Vibration, Random Vibration etc.)
- ▮ Fatigue and Crack Propagation Analysis
- ▮ Center fuselage structures for optimum load paths
- ▮ Center fuselage system layout structures for optimum load paths
- ▮ Concept/Detail Design of avionics enclosures

► Electronic Design

- ▮ Space compliant system development
- ▮ MIL-STD-704, MIL-STD-461, MIL-STD-810 compliant system development
- ▮ ARINC-429, MIL-STD-1553, RS-232, RS-422, RS-485, CAN protocols
- ▮ AC and DC power distribution units
- ▮ AC/DC and DC/DC converters, EMI filters
- ▮ BLDC and induction motor drivers
- ▮ Aircraft Environmental Control Units
- ▮ Combined pressure and temperature sensors
- ▮ Data acquisition systems

► Software

- ▮ DO-178C compliant embedded software development
- ▮ Desktop Control Interface Software (GUI)
- ▮ Aircraft Structure Analysis Software



Our Clients

aselsan

ROKETSAN

TURKISH
AEROSPACE

TÜBİTAK

TURKISH TECHNIC

Overview

Our mission is to offer high-quality turnkey solutions for the special design, manufacturing, installation, and support of electronic and mechanical systems required by the aerospace, space, and defense industries.

Products

► Aircraft Structural Analysis Tools

- TAE LSS: Skin&Stringer analysis
- TAE LFR: Frame analysis
- TAE LSP: Stiffened Panel analysis
- TAE LLO: Longeron analysis
- TAE LCB: CrossBeam analysis

► Avionics Design

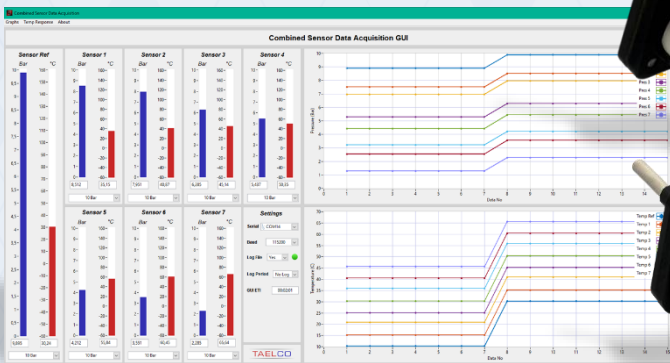
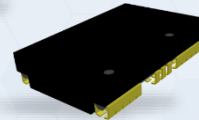
- ECU/PDCU : Environmental Control Unit / Power Distribution Control Unit
- DC/DC Converter 50W >%95 Efficiency (Prototyping Phase)
- DAQ Data acquisition systems

► Sensing Equipment

- MPS Pressure Switch
- DPS Differential Pressure Switch
- DPTS Differential Pressure Switch with Thermal Lockout
- DPC Differential Pressure Sensor
- PTSC & PTSW Pressure and Temperature Sensor
- PSC Pressure Sensor
- TSCL & TSC Temperature Sensor

► Software

- DO-178C Embedded Software
- Desktop Control & Field Test Software (GUI)
- Aircraft Structure Analysis Software



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