

- Balloons
- Orbital systems
- Satellites
- Ground segments
- Transversal competencies



Creative Eurecom (CE) is a research and development company founded in 1988, that has gained strong experience over the past 30 years in the design and industrialization of complex high-tech systems combining on-board hardened electronics, mechanics and software. CE carries out projects for aeronautical (air traffic control, balloons), medical, military and various industrial fields. Via the holding OEM Development, it is coupled to the Crossway Technologies (CT) company, which manufactures small and middle series.

COMPETENCIES & CAPABILITIES

Full system design; multi-actor project engineering; functional analysis, fail-safe architectures, risk analysis; technical feasibility; requirements definition and management...

Engineering of miniaturized and embedded systems, with micro-fluidics, thermal control, sensors, actuators and optics integration. Electronics: Analog and digital circuit design and simulation, integration, verification, qualification, board design. Embedded software design and development on processor and controller; Real-time constraints; Safety features; Mechanics: Computational simulation (FEA, CFD), rapid prototyping, design for plastics processing. DFX system and product design approach. In-house prototyping facilities for electronics and mechanics.



Creative Eurecom

PRODUCTS & SERVICES

System engineering, design and development for miniaturized and embedded equipment (phase A, prototype, demonstrator).

Custom Design & Manufacturing Services:

- 'One stop shop' system & product development and industrialization
- Fast design iterations (prototypes, small and medium series)
- Test bench design

Expertise Services:

- Electronics, wireless communications, embedded software
- Expertise on standards
- Technical and methodological training
- Maintain electronic systems in operational conditions
- System redesign, obsolescence management

Products:

OBC+MC2 Electronic and mechanical embedded system serial production for balloons (36 parts / year): Command & Data Handling Systems, Data Processing Units, On Board Computers, Remote Terminal Units, Power Management Systems, EGSE, SCOE

MAJOR SPACE PROJECTS & REFERENCES

Since 2000: CNES Balloons - balloon control unit; embedded electronics design and production.

Since 2003: STNA - ILS supervisor panel for French civil airports (hardware and software design, operational maintenance).

2007-2015: Physidia - Design, development and industrialization of daily home haemodialysis machine (medical device).

2016-today: Alaxia - Design, development and industrialization of a device for the manufacture of medicaments at home (medical device)

2016-today: Exotec - electronic and software design for automated warehouse order preparation systems.

Since 92: GE Healthcare - Breast imaging robotic moving parts design and production, including electronic, motor control, control panel, hmi software.

POINT OF CONTACT

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TURNOVER: (CE+CT) 8 M€

WORK FORCE: (CE+CT) 60

SPACE TURNOVER: 0,4 M€

SPACE WORK FORCE: 10