

aerospace security traffic telecommunication



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ROBOTS COMPLIANCE ASSESSMENT AND

functional safety analysis



ALTER TECHNOLOGY as a quality driven provider of product compliance services to companies in high demanding industries, provides functional safety services for robots.

Safety is of paramount importance when developing a robot for any service and application in all environments: aerial (drones), neurorobots and health-care, educational, automation, manufacturing, industrial, aircraft, simulation, remote handling, etc.

The robot manufacturer needs the collaboration of a reliable partner that gives support along the whole robot lifecycle with the quality engineering needed, above and beyond regulatory compliance. Beginning in the design phase, the objective is to get a safe robot stating conformity with the applicable European or international standards and directives.

Addressing the compliance from the very beginning of the project, the main activities to successfully guarantee the safety and CE conformity of this complex system are the following:

- + Support in the robot design phase.
- + Identification of legal requirements, conformity assessment procedures and standards (EN ISO 10218, EN 60204-1:2006).
- + Risk analysis (EN ISO 12100:2010), identification of safety measures to be implemented.
- + Functional safety (EN 61508, EN 62061:2005, EN ISO 13849).
- + Performance of the conformity evaluation and testing to finalize with the declaration of conformity.

