

CONTROL SYSTEM FOR DRONE

Improving and securing autopilots

Technological benefits

Robustness

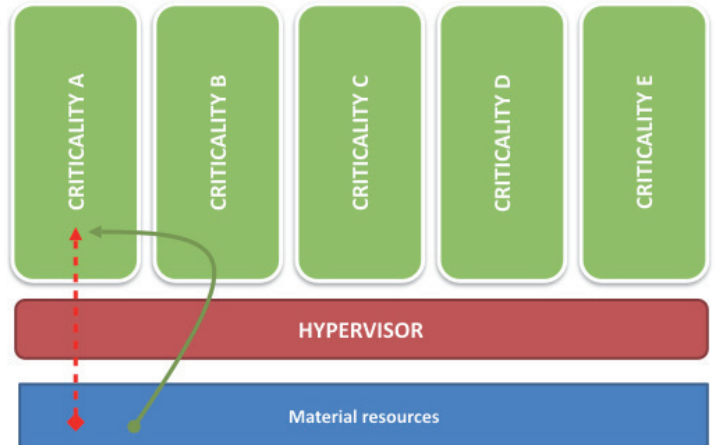
Autopilot robust open.
Operates in degraded mode.

Modularity

Integration and replacement of modules possible.

Dedicated Features

Determination of altitude.
Improved GPS position.
Improved landing of drones by image recognition.



The taking into account of the hierarchy and criticality of the processes guarantees a good functioning.

Invention overview

The invention provides a watchdog process, hypervisor type, which takes into account hierarchy and criticality of the processes to guarantee operation even in degraded mode. When an inconsistency of a peripheral module is detected, the watchdog process advantageously triggers an error situation recovery routine.

Moreover, the architecture of this system is modular and secure.

Commercial benefits

Economic

Improved performance, increased efficiency.
Compact size and light weight.

Evolutive

Modular and adaptable to different supports.
Allows to upgrade the functionalities of the system with the technological advances.

Potential applications

Aircraft, drones.

Extension possible to autonomous machines (ground, sea).

TRL : 8

Invention available under license.