SERESSA 2022

Organizers:

Contribution ID: **7** Type: **not specified**

System hardening and real space applications

This talk describes the suitable protection at architecture and system level against the effects of radiation on electronic components and digital systems. After the description of the general architecture of a space avionics system, the potential solutions for each type of units constituting an on-board computer are presented through the example of real space applications: avionics bus, links, memory units, and –the main part –processing units i.e. fault-tolerant architectures.

Presenter: PIGNOL, Michel (CNES)