

SERESSA 2022

COTS in (Deep) Space

Hans-Juergen Sedlmayr, DLR - RM

Abstract:

The usage of commercial off-the-shelf (COTS) technologies in (deep) space missions might be a risk for the mission. But sometimes radiation tolerant parts are not feasible due to space or performance requirements. This paper gives a brief overview of the usage of COTS in (deep) space missions at the DLR Institute of Robotics and Mechatronics and the associated radiation assurance activities.

Short Bio:

Hans-Juergen Sedlmayr received his Dipl.-Ing degree in Electrical Engineering from the University of Applied Science Munich in 1992. Since 2001, he has been with the German Aerospace Center, Institute of Robotics and Mechatronics. His main research focus is in the field of radiation testing of electric and electronics parts and embedded software development inside robots for terrestrial and space applications. He contributed to multiple Space Missions; within the ongoing MMX mission, he is responsible for Quality Assurance of the rover's locomotion subsystem.



Organizers:

