

## **DESIGN OF COMPONENTS AND SMALL SATELLITES FOR CRITICAL MISSIONS.**

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The objective of small satellites, specifically cubesats, was to provide academic students experience to real hardware. Over the past years the use of cubesats has extended to commercial operations. The use will be further extended going beyond LEO and going into more advanced and interplanetary missions. This will require the adaptation of the development of components, while still having the intention to have a different approach to reliability and cost.

There will be an overview of the various approaches towards small satellites, based on personal experiences, as well as comparisons to other projects, both inside the space industry as from the non-space industry. During the keynote various points of attention during the design cycle of components will be highlighted, both from a project management, system engineering and electronics and mechanical engineering point of view.

Practical examples on the development of a wide range of cubesat products will be given, based on the experience of the speaker.