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LibreCube Activities 2019 - A Review

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LibreCube – Open Source Space and Earth Exploration

LibreCube's vision is to enable everyone to get involved in building systems for exploration of near and remote locations using open source hardware and software. We believe that discovering new worlds and getting scientific insights should be a matter to all humankind.

This presentation reviews the various activities conducted in 2019. This includes the development of the following open source prototypes:

- a PLUTO to Python parser for automation of tests and operation,
- a SLE User application to connect to Space Link Extension Service Provider,
- a breadboard setup of a basic and robust Power Control and Distribution Unit (PCDU) for onboard power systems,
- some rudimentary prototypes for demonstrating CCSDS MO services.

Also, an update of the CubeSat standards book has been published.

Finally, we give an update on the next prototypes and programs one can get involved in.

Primary authors: SCHOLZ, Artur (LibreCube Initiative); Mr MAASS, Jan (LibreCube Initiative)

Presenter: SCHOLZ, Artur (LibreCube Initiative)

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