SPIIICA
Solutions for Innovation and Integration Science of Astrobiology

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It is well known in the world of robotics development, thanks to globalization, countries that previously did not participate in these developments have seen the need to be involved in an elite academic field where new technologies are handled.

Lunrobot project innovation is the creation and participation of Colombian team competition organized by the mining NASA Kennedy Space Center, in addition to this we have the following aspects:

- The project aims to promote robotics research in universities, colleges and other institutions with technological developments, so that the project is fully open, adaptable and expandable.
- It is applicable and highly interdisciplinary because it integrates different branches of engineering with the same goal.
- To analyze and develop different techniques that are appropriate for robotic excavation and collection of surface soil samples, in this case, regolith.

The purpose of this project is focused on the design and implementation of a robotic excavation and collection that meets the conditions of the NASA prototype of this order, and additionally can be presented in the Lunrobot Mining Competition.

To carry out each process K12 System implemented and as such its implementation STEM, according to the routing of NASA Education. The educational program begins with the selection of students through the system (MER) Explorer Rover Mission. The IAC in its education program, implemented under this system, the construction and development of prototypes that seek to solve new challenges posed by the space data, one of these challenges is the LMC in which the general purpose is the thermal of the regolith which is a material composed of rocks, mineral grains produced by meteoroids impacts on the lunar surface.