

IAF SPACE EXPLORATION SYMPOSIUM (A3)  
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A ROVER PROPOSAL FOR MOON EXPLORATION DESIGNED AT UNTELS

**Abstract**

At the Universidad Nacional Tecnológica de Lima Sur (UNTELS) in Peru, there is an increased interest in space exploration issues on the part of students, especially from the professional school of electronic and telecommunications engineering. This interest is being welcomed by the Aerospace Sciences Health Research Laboratory (INCAS-Lab) of UNTELS, and thanks to this interest, the Introduction to Space Systems course has been created. In order to channel this interest in space issues, projects began to be developed at INCAS-Lab, and precisely one of those projects is the design of an explorer robot for a mission to the Moon. The project's main objective is to train professionals with knowledge of space issues and thus demonstrate that in developing countries such as Peru, proposals for space exploration missions can also be made. The design includes wheels that can facilitate mobility on the lunar surface and electronics suitable for the mission. At the end of the work, it is expected to achieve a robust design and an excellent experience for the participating students, contributing to the spatial development of Peru.