

20th IAA SYMPOSIUM ON BUILDING BLOCKS FOR FUTURE SPACE EXPLORATION AND
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EXPLORATION AND DEVELOPMENT (IP)

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INTERIOR DESIGN OF LUNAR HABITAT.

Abstract

More and more proposals and initiatives are emerging whose objective is to inhabit the moon, however the great challenge is to develop habitable constructions adapted to the conditions of each place. In this document, the research that allows us to develop the design of the Lunar Habitat will be carried out, focused mainly on the interior design of the habitat, which will be made up of 3 stages.

First stage: Design of distribution of spaces developed on 2 interior levels, dimensioning of zones through architectural plans / distribution schemes capacity of 4-7 people

Second stage: The proposal of materials to support space conditions, protection from solar radiation and lunar matter is very important. Taking into account the shape, colors and furniture necessary to create an interior space of physical and emotional comfort. Therefore, a lunar habitat will have to be very effective and resistant. It will have to be hermetic, so that inside it can pump breathable air without leaks or explosions, the materials must be light and the habitat will have to be assembled by the explorers and self-assembled, it will have to be cooled during the moon. day and warms up at night.

Third stage: 3d modeling and rendering We will make a 3d model of the interior space of the lunar habitat and in turn a render, with which we will be able to visualize each interior space with which we will be able to dimension, visualize and see a virtual tour that allows us to have a clearer and more exact image of the design of our habitat.

With this research we hope to obtain In this research framework, the objective of this work is, through analysis and research, to develop the possible lunar habitat that fulfills the purpose of offering a space that is physically and emotionally comfortable for explorers and that through this exercise allows visual results. closer to what could be developed in real life.