



GALACTIC SUITE DESIGN
FAQ
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Tourism is a decisive driving force of general economic and technological development. Tourism to extreme places, and particularly space, leads to the development of core technologies that go beyond the space sector and reach other industries, which benefit from the employment created. From health and medicine to leisure and entertainment, aerospace tourism will bring new business openings and new technologies.

WHO ARE WE?

GALACTIC SUITE DESIGN is a leading company in conceptualisation and design in the aerospace industry.

Founded in Barcelona in 2007, GALACTIC SUITE DESIGN became known thanks to the Galactic Suite Spaceresort, the first hotel in space. The project will include 18 weeks' training on an island in the Tropics (GS Island), the launch from a spaceport on the island (GS Spaceport), ascent into orbit (GS Spaceship) and a stay of 4 to 6 days in orbit (GS Spaceresort).

The hotel is being developed on the basis of the concept of small bioinspired space stations with cluster growth that permits a by-phase development, but with a maximum growth of five modules conceived as a shelter. The ultimate goal of the project is to build several such stations to make the company the largest chain of orbital hotels.

HOW DO WE WORK?

GALACTIC SUITE DESIGN is a team of professionals from different disciplines whose work is based on a constant reinvention of the way in which we understand existing processes, situations and objects. All work is developed based on propositive strategies in order to offer users the best possible experience. The working process is based on LISTENING without prejudices or preconceived ideas, ANALYSING the data provided and completing them to accumulate sufficient knowledge of needs, and LOOKING around in search of anything that society may need.

WHAT DO WE DO?

GALACTIC SUITE DESIGN develops concepts and the design of habitats, vehicles and interiors in the aerospace sector.

The company is developing a chain of habitats and vehicles at different altitudes and depths above and below the earth's surface, respectively. Its initial projects include collaborations with private developers, such as the GS Spaceresort (GSSR), the GS Spaceport (GSSP), the GS Island (GSI) and the GS Spaceship (GSSS).

It is also conducting research into habitats and tourism vehicles on Mars (GS Mars -GSMR), the Moon (GS Moon -GSMN), the frontier between the atmosphere and space at an altitude of 40 km (GS Nearspace -GSNS), the intermediate layers of the atmosphere up to an altitude of 10 km (GS Dirigible -GSDI), at the highest points on the earth's surface (GS Himalayas -GSHI), in parabolic flights recreating microgravity (GS Parabolic -GSPA), or in the ocean depths (GS Seasuite -GSST). The company is also developing the GS Product (GSPR) to bring the aerospace experience closer to the general public by means of theme products related to the concepts developed by Galactic Suite.

OTHER ACTIVITIES

GALACTIC SUITE DESIGN also offers its services to other companies from the aerospace sector that seek to renew their concepts and reorient their products.

Its areas of action include a new way of looking at individual and collective transport; conceptualisation of new spaces and times in air, overland vehicle and railway transport; the personalisation of aircraft, cars and trains, and aerospace interior design.

As a design supplier, its potential clients include ESA, NASA, EADS-Astrium, Airbus, Boeing, Lockheed-Martin, Thales-Alenia, Alstom, etc.

PROJECTS

The **GS Nearspace** will consist of the development of a reusable aircraft to initially accommodate 6 passengers and one crewmember to a flight altitude of 40 km, in the so-called "near-space" area, where passengers will be able to observe deep space and a considerable curvature of the horizon, although they will be unable to float in microgravity.

The flights will be made in hermetic capsules with systems for the generation of artificial atmosphere, thermal control and solar capture to generate electricity.

These ships may be used for short stays, ranging from a few hours to 1 to 2 days.

The balloons will operate from a land base consisting of an embedded architectural structure, with all the services of a hotel (lobby, restaurants, rooms, conventions centre, spa and wellness), from which the balloons will take off daily for near space.

The **GS Dirigible** is the development of an inflatable aircraft, with capacity for initially 2 passengers and one crewmember to a flight altitude of 8 km, in the area called the stratosphere, where the passengers can enjoy a flight unaffected by the Earth's topographic features.

The dirigibles will provide overnight accommodation, and their inside has been designed like a hotel suite. They will be based in Dubai (UAE), where the aircraft will be anchored to a tower that will provide full hotel services: lobbies, restaurants, convention rooms, wellness and spa.

Each dirigible-room can take off from there for journeys lasting a few days. The GS Dirigible can also be used to access the Himalayas (see below). For this purpose, the aircraft was conceived as a semi-rigid dirigible with a periscopic internal structure that renders it possible to expand the volume of helium inside to reach the necessary altitude from 8,000 metres. The electrical motors are driven by photovoltaic energy with an external flexible capturing coating.

The front gondola has been designed as a hermetic capsule and with systems of generation of artificial atmosphere and thermal control. It will have a room with a bathroom, a dining room area and a small kitchen, as well as a control room for the ship where the crewmember will also be quartered.

The **GS Himalayas** entails the development of a hotel on the Himalayas mountain range. It is conceived as a non-permanently occupied shelter that will consist of 8 bioinspired spherical modules, including 1 access module, 3 suite modules, 1 common space-restaurant module, 1 wellness-spa module, 1 service module and another installation and energy generation module. The modules will have artificial atmosphere and thermal control systems. They will be constructed as aluminium and compound material multilayered structures, and will be transported to and assembled on the site by Skycrane S-64-type helicopters. Large aluminium and glass structures will offer impressive views of Mount Everest from any point.

The hotel will accommodate up to a total of 6 guests and 3 employees for periods of between 5 and 8 days at an altitude of 7,500 metres. The interior design features continuous and undulating spaces with protuberances that house all the necessary equipment and with warm and sensual materials.

The project also includes the development of an overland access vehicle, which draws its inspiration from the movement of caterpillars and spiders, and will be able to traverse rough surfaces with a minimum impact. The vehicle will be driven by an electrical engine that will be equipped with solar panels and will have a sealed capsule for a crew of 4 with thermal control and artificial atmosphere.