

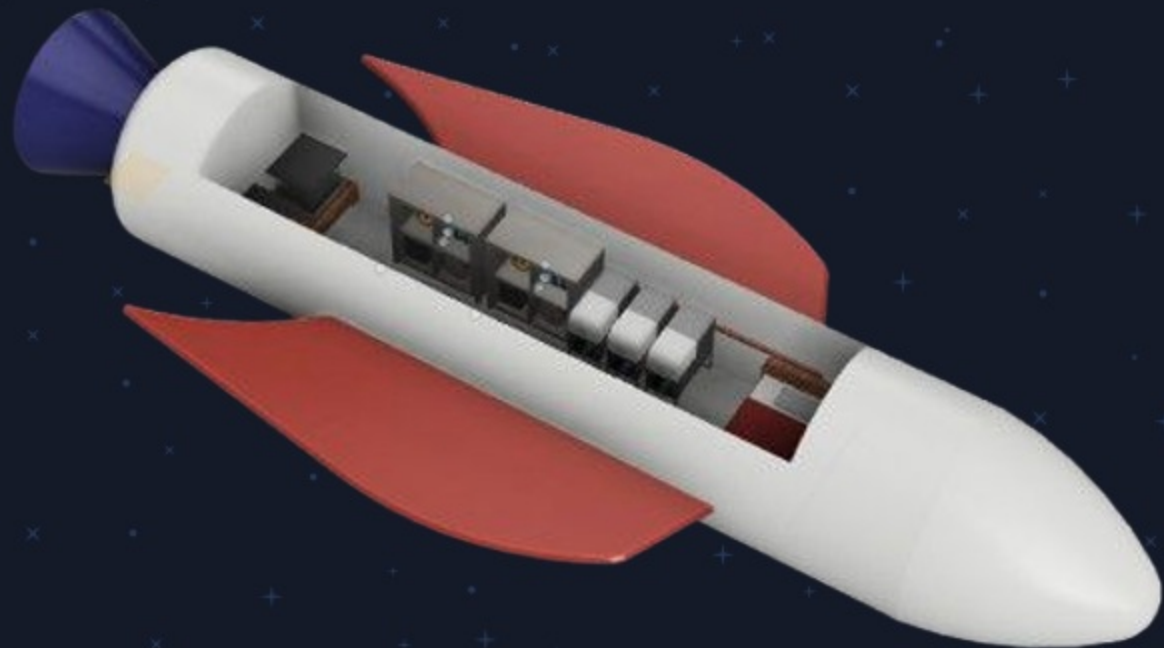
Necessities of Space Life

A 3D-Modeled Habitat Pod for Sustaining Life in Space

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Overview



01 The Space Pod

This design depicts the factors necessary to human life in space: food, oxygen, water, and sleep, all built into a single self-contained pod.

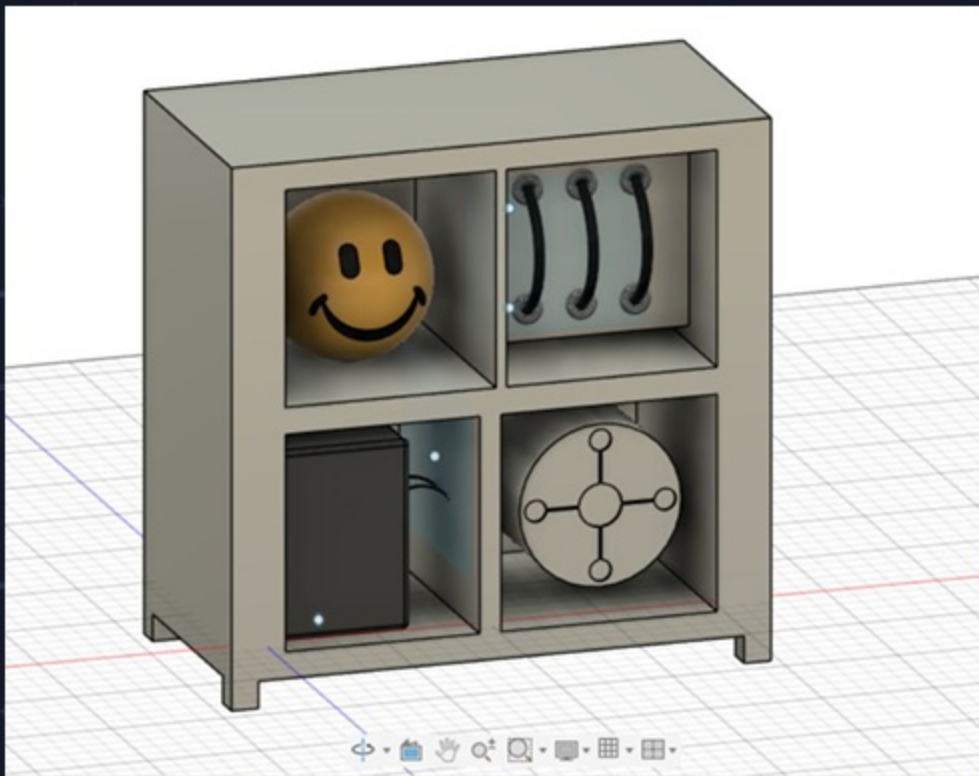
The exterior is shown open so each interior system: hydroponics, life support, water recycling, and sleeping quarters is visible at once.



02 Hydroponics Chambers

The square components on the table are chambers for growing plants. They resemble NASA's "veggie" hydroponics system, allowing astronauts to grow fresh food during long missions.

Oxygen

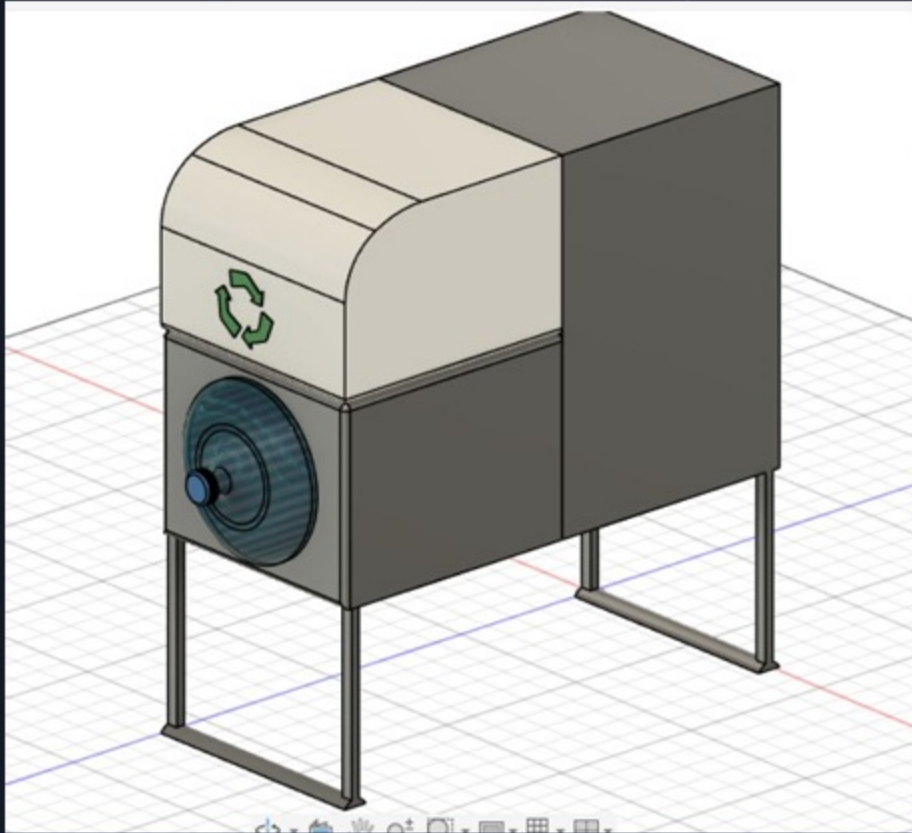


03 Life Support & Oxygen

The shelves adjacent to the table are oxygen and life support systems. They cycle carbon dioxide from the atmosphere and filter it out, leaving pure oxygen ready for astronauts to breathe.

The smiley face on one shelf is a purely aesthetic touch, which is a small sense of companionship for astronauts on a solitary journey.

Water

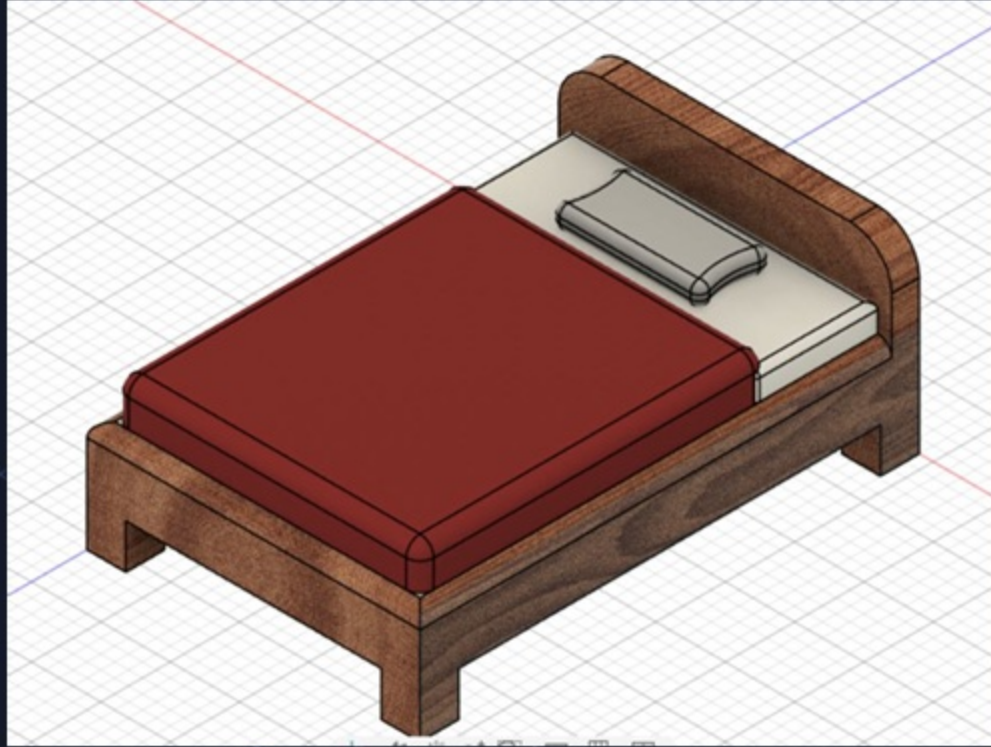


04 Water Recycling System

The dispensers next to the oxygen machine are water recycling systems.

Like the oxygen system, they take in water vapor from the atmosphere, filter it, and transform it into drinkable water, dispensed from the jug at the bottom.

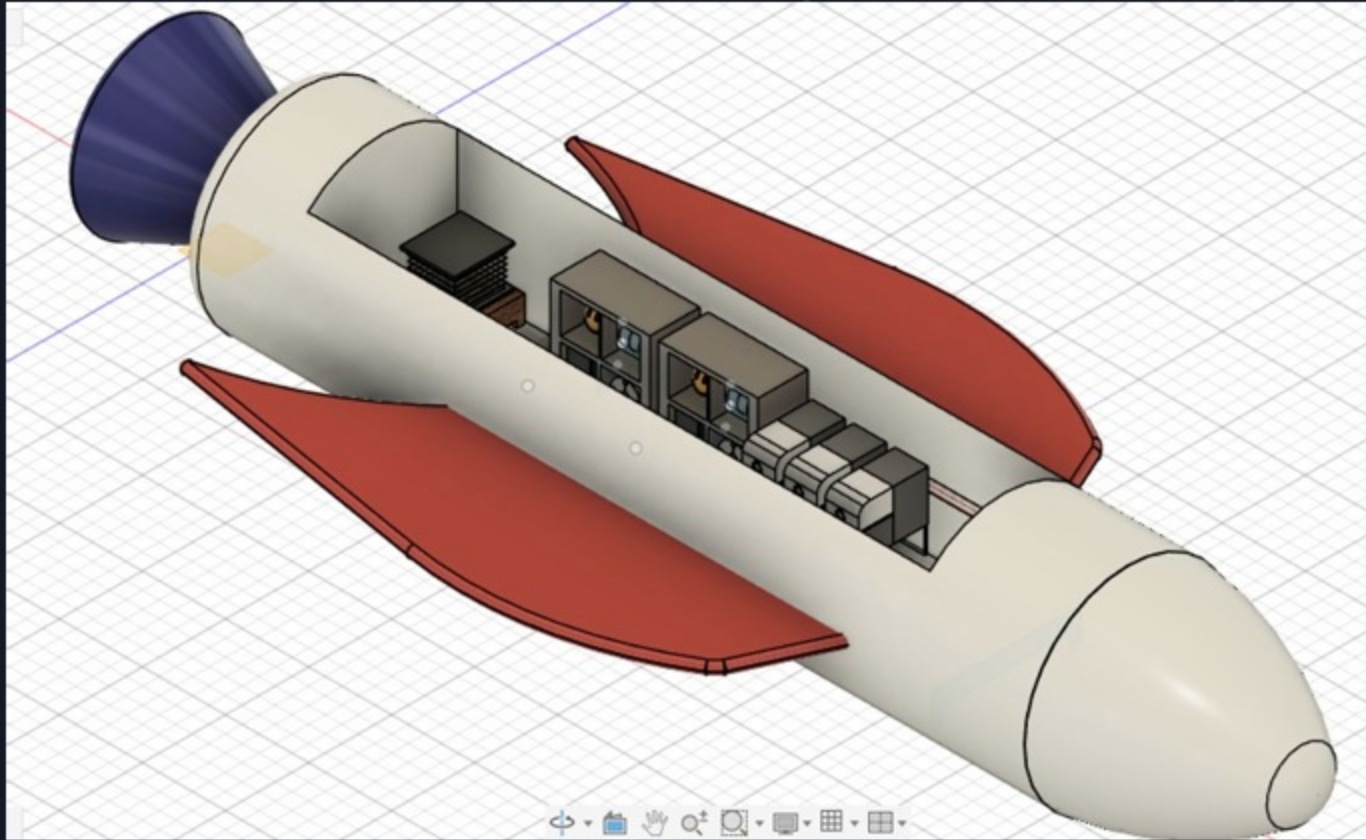
Sleep



05 Sleeping Quarters

Near the corner of the pod is a bed for astronauts to get a full night's rest, or to take a short nap whenever they need one.

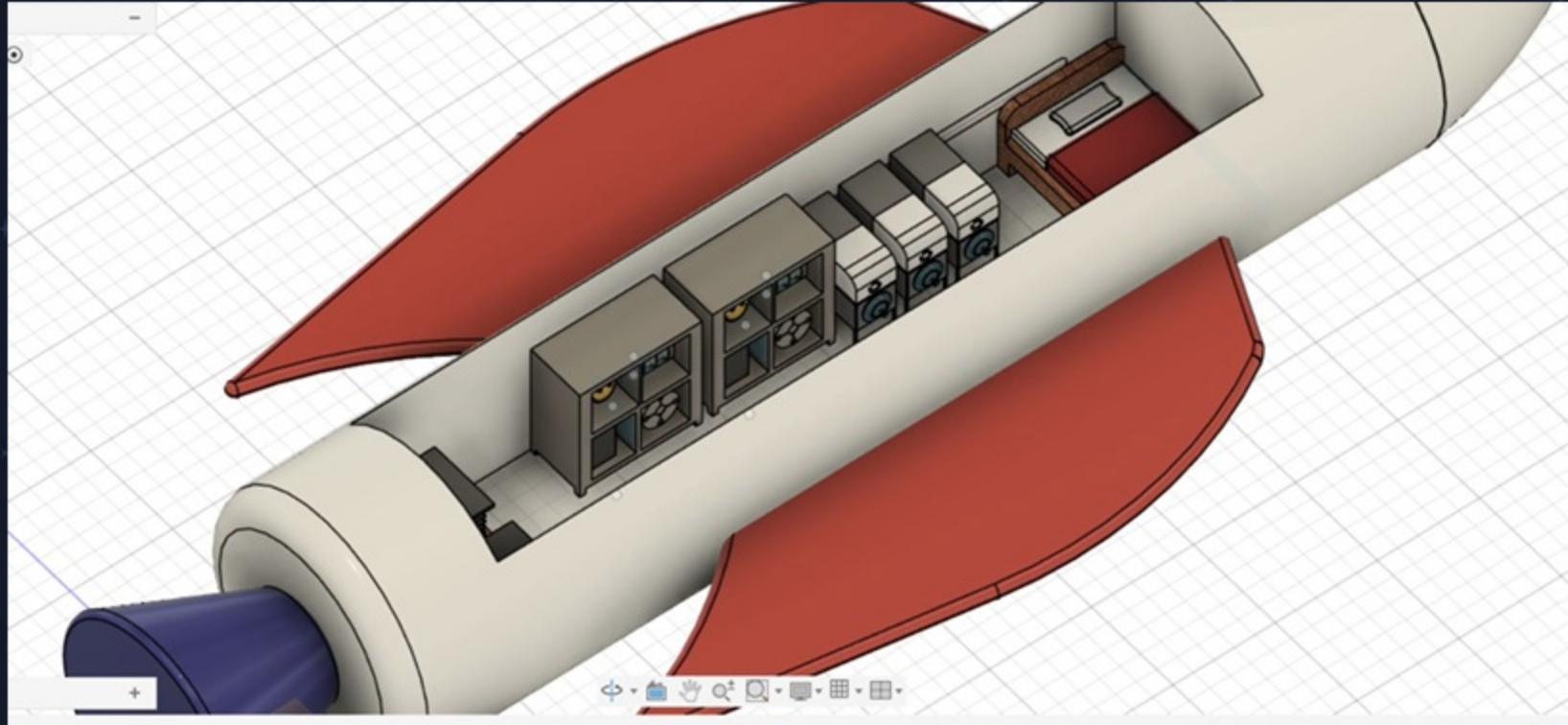
Exterior Angles (Autodesk Fusion)



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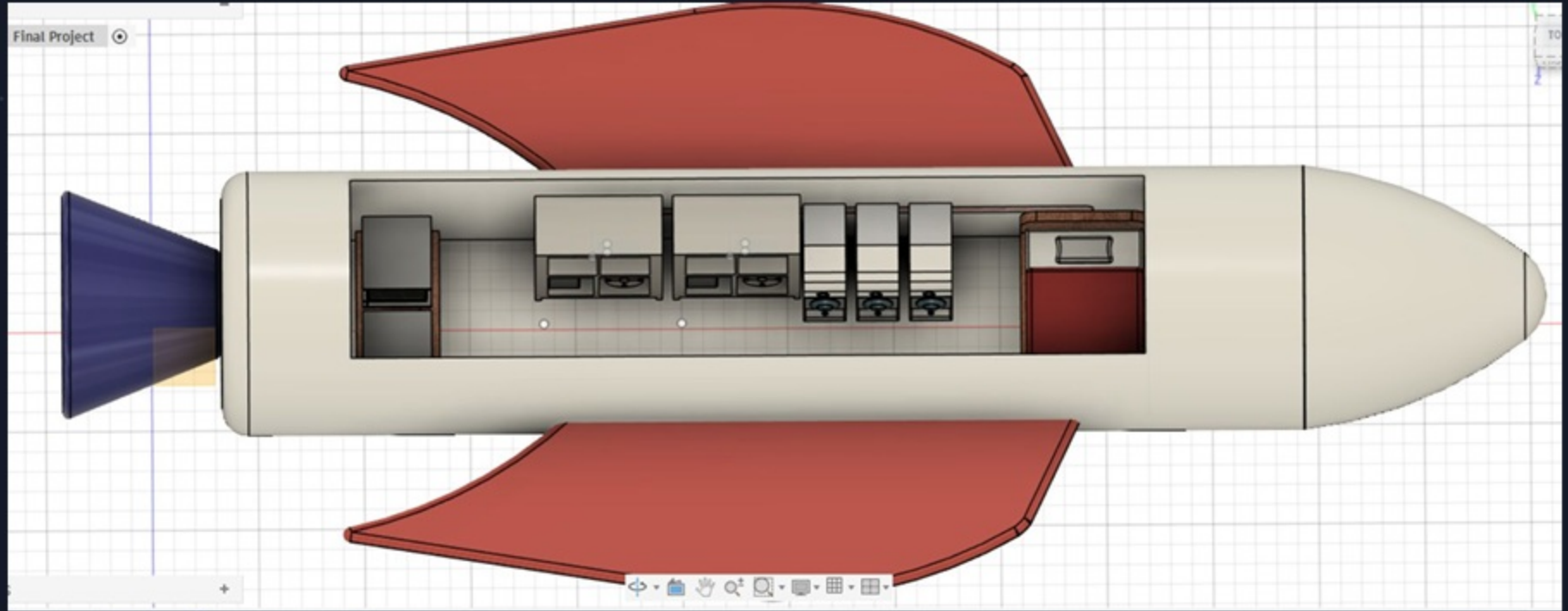
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