“WHAT IF LEARNING ABOUT SPACE AND SCIENCE WAS AS FUN AS YOUR FAVORITE VIDEOGAME?”

TINY ORBIT

NASA SPACEAPPS CHALLENGE MONTERREY 2025 - INTERNATIONAL SPACE STATION 25TH ANIVERSARY CHALLENGE

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TEAM AVIONÍSTICOS ROBOTONTOS

OCTOBER 2025

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ABSENCE OF EDUCATION AND DIFFUSION ON...

How does LEO affect the astronauts' body at the ISS?

Neutral Buoyancy and Weightlessness effects

Benefits of training for space missions

How can Worldview help us from the ISS Cupola?

Medical Investigation and Scientific Research on the ISS

"You Are Here" perspective by Chris Hadfield(Canadian Astronaut)

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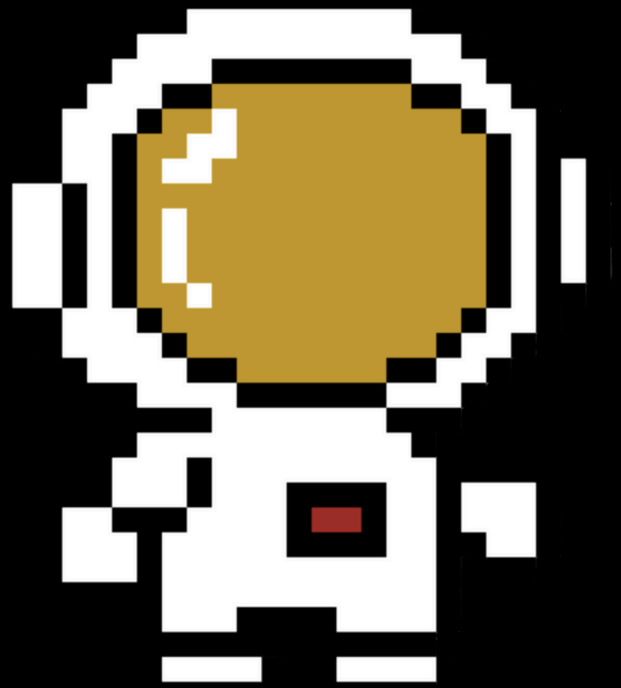
OUR GAME



At the Neutral Buoyancy Laboratory (Level 1): (NASA Neutral Buoyancy Laboratory, 2025)

- Put on the suit
- Simulate an EVA on neutral buoyancy
- Repairing a solar panel on the ISS simulation

At the International Space Station's Cupola (Level 2): (NASA worldview application, Cardiovascular Research on Station, 3D Bioprinting).

- 3D tissue printing in microgravity
- Medical examination (anthropometry)
- Mapping and worldview
  + Sleeping

At an EVA (Extra-Vehicular Activity) outside the ISS (Level 3):

- Space walk
- Taking anthropometric measurements and identifying if they have changed.
- Repairing a solar panel on the ISS.

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IMPACT

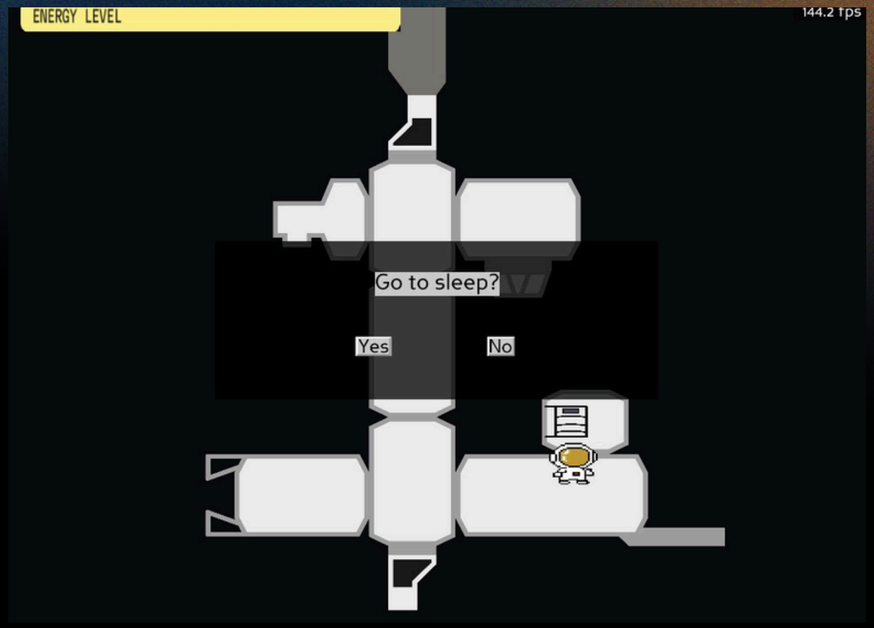
Help kids aged 6 to 15 years to understand the diverse effects of microgravity on the human body, especially on the ISS asutronauts.

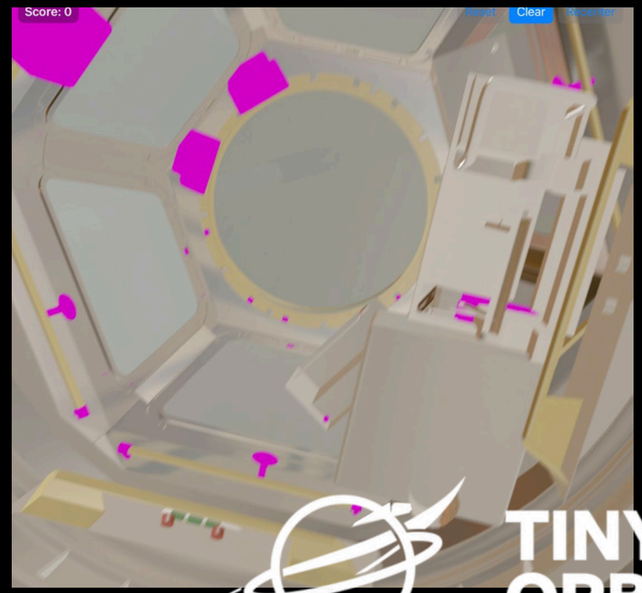
Outstanding Impact: Educational, inspiring, and globally scalable.

CREATIVITY

A unique mix of 2D RPG and 3D AR missions brings the ISS to life like never before, having a 3D model of the ISS Cupola in AR.
Each level blends storytelling, science, and interactivity to make learning fun and memorable.

Highly Creative: Fresh, immersive, and emotionally engaging.





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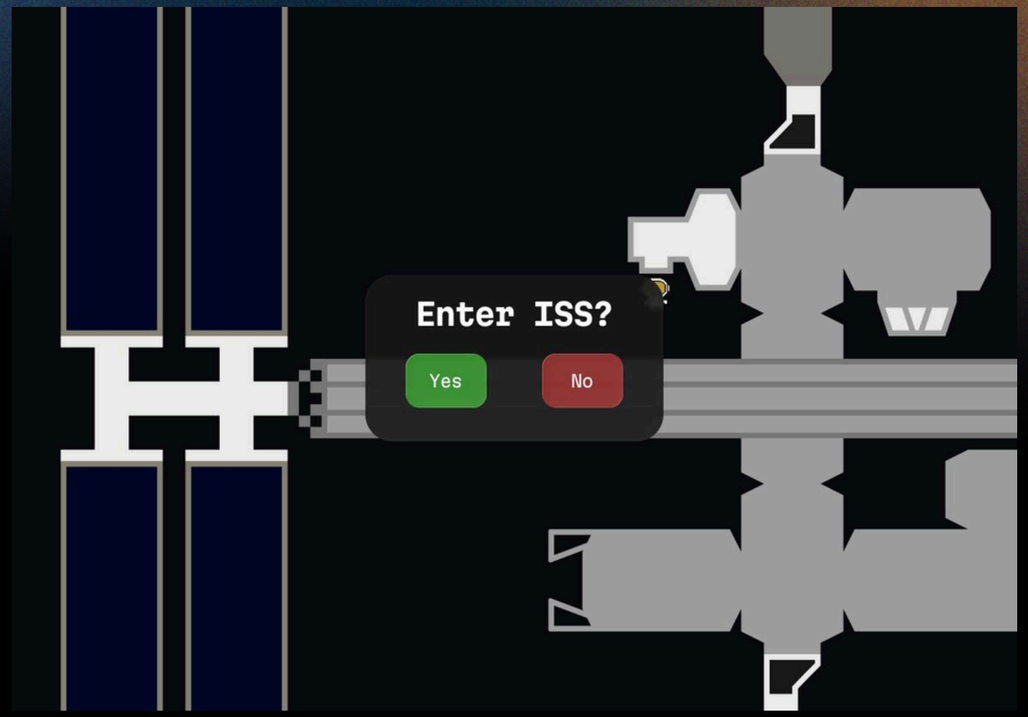
VALIDITY

Built on real NASA data and scientific research about microgravity and human physiology, specially regarding LEO's effect on the Cicardian cycle and Hormones in Astronaut's Body.
Developed with accurate simulations, solid code, and a user-friendly design.

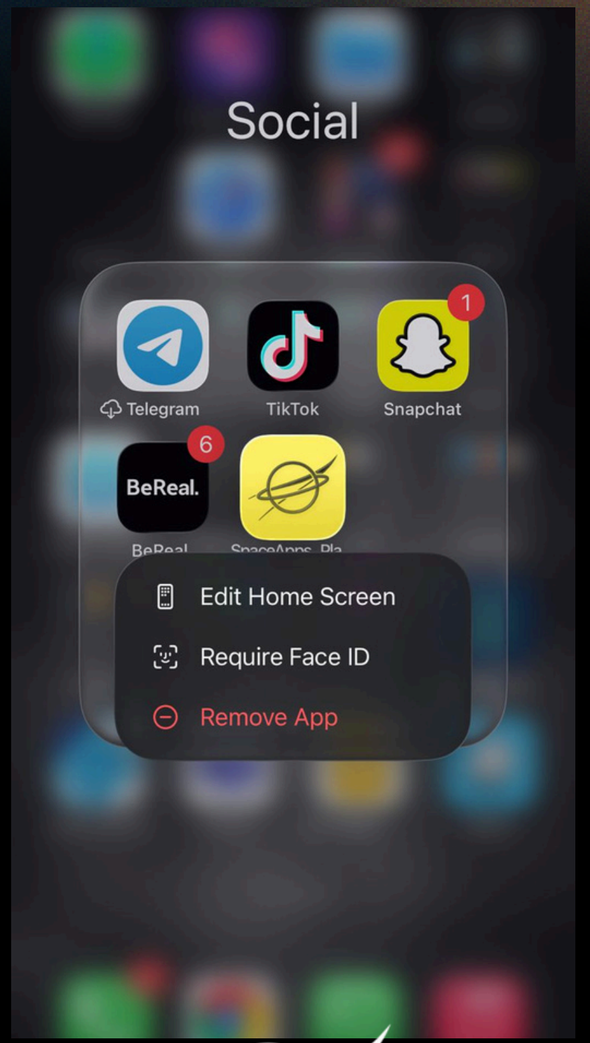
Highly Valid & Feasible: Scientifically grounded and technically reliable.



RELEVANCE

Directly celebrates the ISS 25th Anniversary by turning real NASA data into interactive experiences. Teaches how astronauts live and work in space through fun, meaningful missions.

Highly Relevant: Strong NASA data integration and perfect challenge alignment.



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OUR TEAM

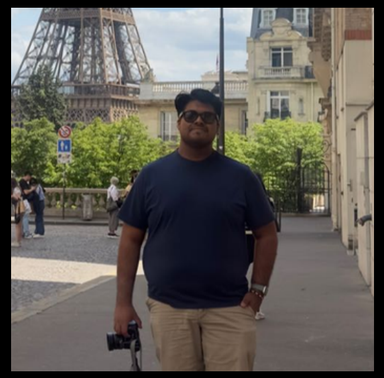
Sofi Sandía
Medical research

Emilio Flores
UX/UI lead

Charles
Project lead

Jay jay
Software

Rex
Software



Fermin
System integration

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HELP US REACH SPACE WITH

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