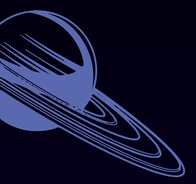
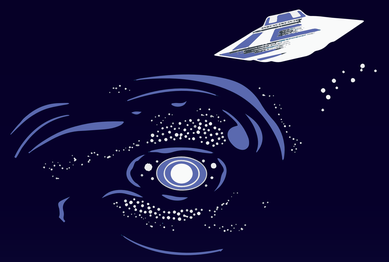
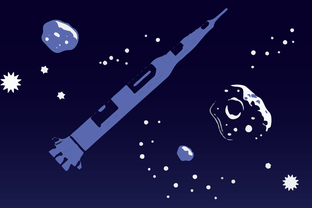
PULSAR

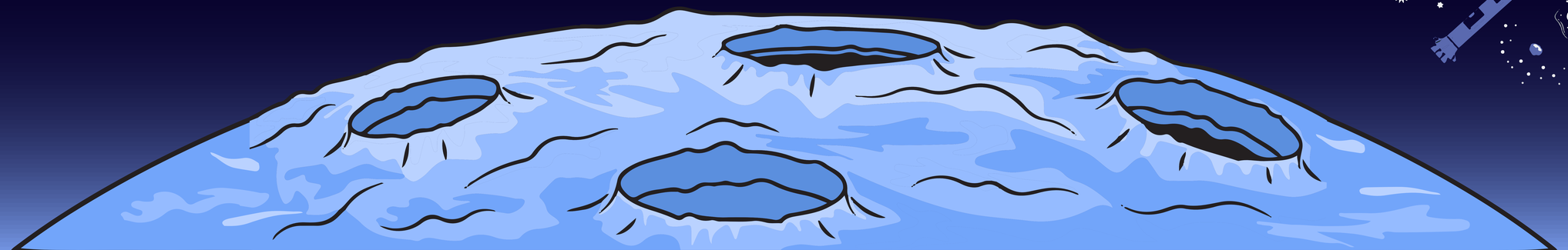
2024 NASA Space Apps Challenge
Visualize Space Science





A VR-Biology Project





WHAT IS PULSAR AND OUR PROJECT PURPOSE.

Yağız
Tiken

Emre
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Murathan
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Emirhan
Ekşi

Alim
Aydoğdu

Hamza
Bostancı

About Us:

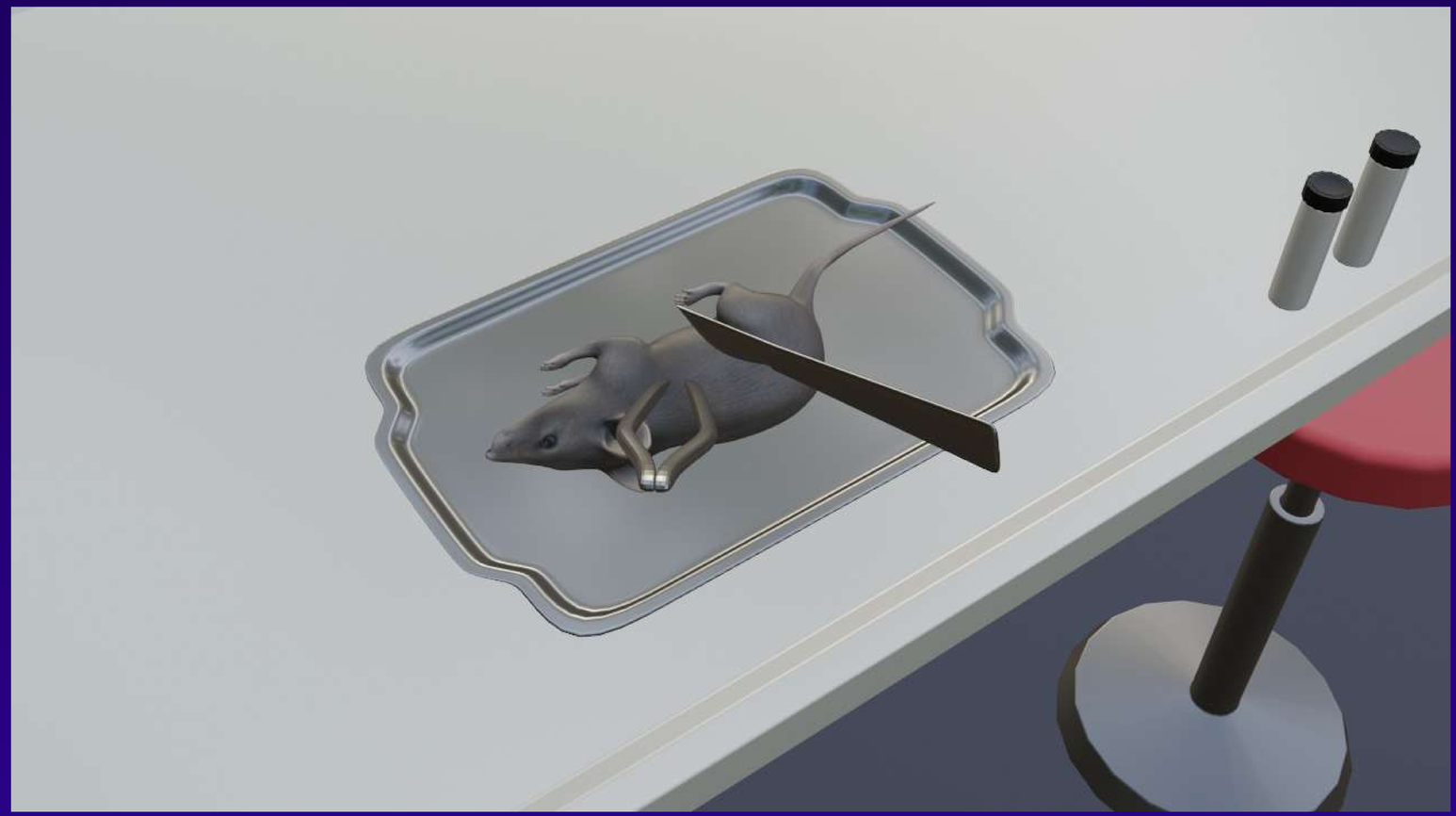
Pulsar Team is a technology community that has carried out various projects in the fields of space, aviation, and technology. Our ultimate goal is to contribute to technological advancements for the benefit of humanity in various fields such as space, aviation, biotechnology, and cybersecurity in the future. The main objective of our current project is to make NASA's space experiments and biological studies more engaging and educational by presenting them through a VR experience.

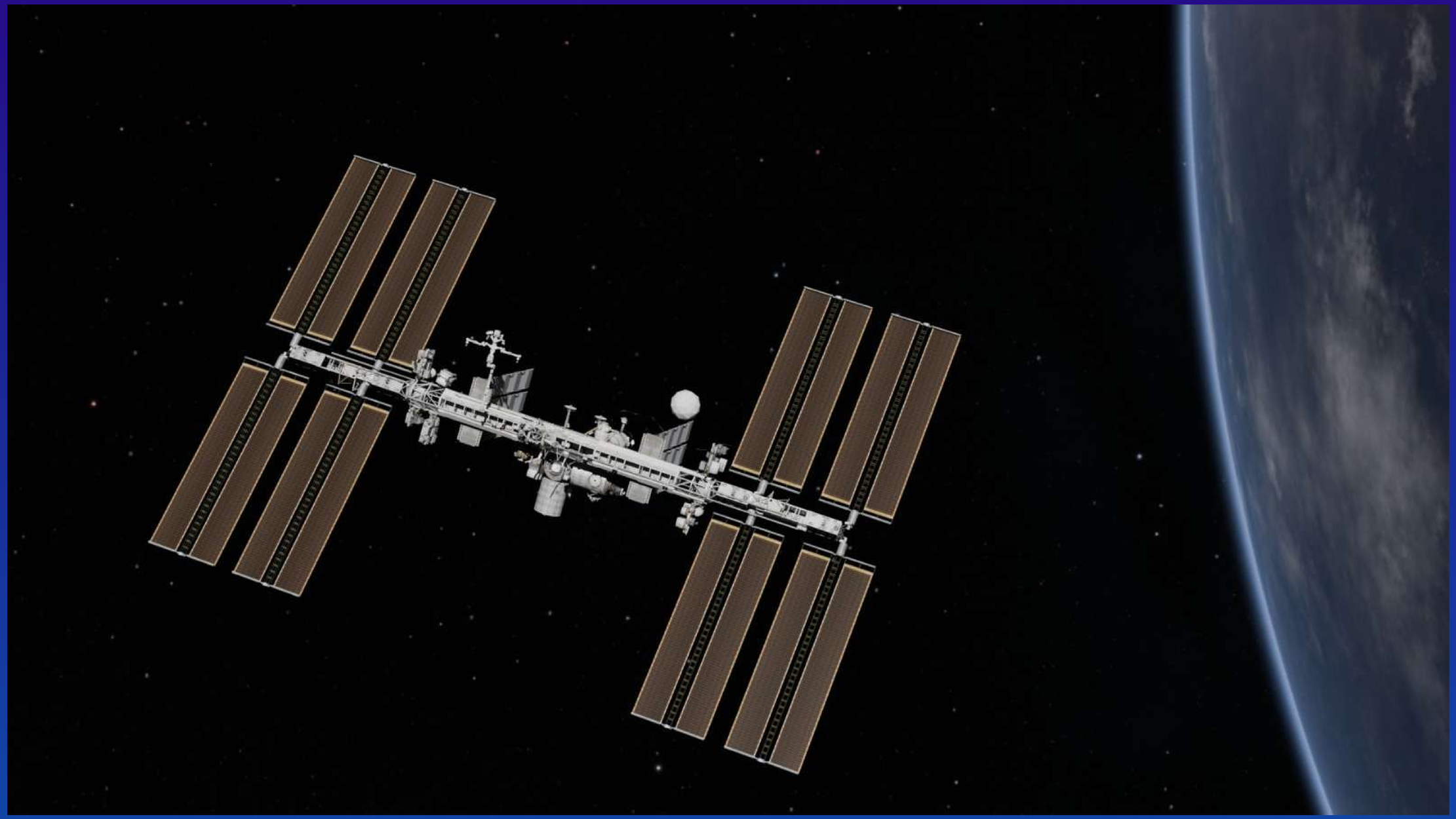
OVERVIEW:

Pulsar Team is a technology community that has carried out various projects in the fields of space, aviation, and technology. Our ultimate goal is to contribute to technological experience. Our ultimate goal is to contribute to technological experience.

THE RODENT RESEARCH-23:

The Rodent Research-23 Mission is an experiment consisting of 3 groups, with 20 mice used in each group. The purpose of the experiment is to better understand the effects of prolonged exposure to microgravity on the mice, particularly the effects on the structure and function of arteries, veins, and lymphatic vessels required to maintain vision.





THANKS!

FUTURE IMPROVEMENTS:

- More detailed modeling and graphics.

- Increasing the game duration and the number of interactive objects.

- Improvements in optimization.

POSSIBLE ISSUES:

- Problems related to modeling during game development.

- Optimization issues during the development process.

- Inability to perform detailed modeling and graphics work due to time constraints.

SOURCE:

https://free3d.com/3d-model/computer-keyboard-v1--539849.html
https://free3d.com/3d-model/computer-mouse-v3--595560.html
https://www.researchgate.net/figure/The-Rodent-Habitat-previously-AEM-compared-to-the-vivarium-cages-A-Image-of-the-AEM_fig1_330368911
https://www.researchgate.net/figure/The-Rodent-Habitat-previously-AEM-compared-to-the-vivarium-cages-A-Image-of-the-AEM_fig1_330368911
https://osdr.nasa.gov/bio/repo/data/studies/OSD-665
https://osdr.nasa.gov/bio/repo/data/studies/OSD-665/2
https://emea.illumina.com/systems/sequencing-platforms/novaseq/order.html
https://app.jove.com/v/58447/exploring-the-effects-of-space flight-on-mouse-physiology-using-the-open-access-nasa-gene lab-platform
https://www.nasa.gov/ames/space-biosciences/rodent-research-23-spacex-21/
https://github.com/nasa/GeneLab-sampleProcessing/tree/master/SOP_pdfs
https://bioportal.bioontology.org/ontologies/NCBITAXON?p=classes&conceptid=10090