INNOVATION FLOOR

HISTORIC FLIGHT™

AR SIMULATION

Hazza Ali Al Mansoori

is an astronaut, the first person from the United Arab Emirates in space.

On September 25, 2019 he launched aboard the Soyuz MS-15 spacecraft to the International Space Station. He landed safely in Kazakhstan after eight days, on October 3, 2019. Al Mansouri stated that he proudly returned with Zayed' ambition achieved.

Our AR game covers entire flight mission of Soyuz MS-15

UAE SPACE PROGRAM

The UAE joined the ranks of 18 countries that have sent people to the International Space Station (ISS

STRATEGIC VISION

UAE Space Program

Mission to ISS

THE PIONEERING MISSION TO THE ISS IS PART OF THE UAE ASTRONAUT PROGRAMME THAT WAS LAUNCHED BY HIS HIGHNESS SHAIKH MOHAMMAD BIN RASHID AL MAKTOUM, VICE PRESIDENT AND PRIME MINISTER OF THE UAE AND RULER OF DUBAI, AND HIS HIGHNESS SHAIKH MOHAMMAD BIN ZAYED AL NAHYAN, CROWN PRINCE OF ABU DHABI AND DEPUTY SUPREME COMMANDER OF THE UAE ARMED FORCES IN 2017, TO TRAIN AND PREPARE EMIRATI ASTRONAUTS TO TRAVEL TO SPACE ON VARIOUS SCIENTIFIC MISSIONS.

Overview ™

The idea is about designing a game, which supports #Zayed_Ambition using the Augmented Reality Technology.

The aim is to contribute in raising the community awareness highlighting the importance of #Hazza Mansouri mission by carrying out different tasks that are related to the rocket and spacecraft launching, living on the International Space Station - ISS and the return to Earth.
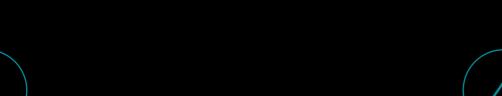
Hazza Al Mansoori

First UAE Astronaut

Gameplay

The simulation has several features:

1

Arcade Mode. In this mode the player controls the flight tasks/stages manually. It has intuitive and simple controls with simple physics.

2

Automatic Mode. In this mode, the whole flight process of Soyuz MS-15 will be played automatically without player's interference. The player can only watch and move camera around the objects in 360

3

Wiki Mode. This is glossary section which covers some facts, timelines, biography, spacecraft etc. Live ISS Mode. Ability to track ISS in real time

4

Gallery Mode. In this section player can browse various multimedia content such as photos and videos related to Hazza Al Mansoori

HISTORIC FLIGHT

A.R. SIMULATION

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مـــركز محمـد بن راشـد
للـــفضـــاء
MOHAMMED BIN RASHID SPACE CENTRE

Stage 1 — Rocket launch from Baikonur Launch Pad

Stage 2 — Rocket burn stages & Orbit maneuvering

Stage 3 — Docking to International Space Station & ISS Tour

Stage 4 — Returning to Earth. Orbit re-entry & Landing

Game Play Example

Breakdown trough the stages of Arcade Mode.

Stage 1

Step 1 ● Astronauts walks towards the Soyuz rocket

Step 2 ● Player initiates the launch countdown

Step 3 ● Player initiates the several engine burn-outs & stages

Stage 2

Step 1 ● Player maneuvers the space craft into orbit to catch and locate the ISS

Step 2 ● Player controls the space craft in XYZ to dock with ISS

Stage 3

Step 1 ● Player initiates the countdown to undock from ISS

Step 2 ● Player maneuvers capsule for atmospheric re-entry

Step 3 ● Player initiates parachute and landing booster

Concept

Arcade Mode: Stage 1

Concept

Arcade Mode – Stage: 2 & Stage: 3

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THANK YOU!

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