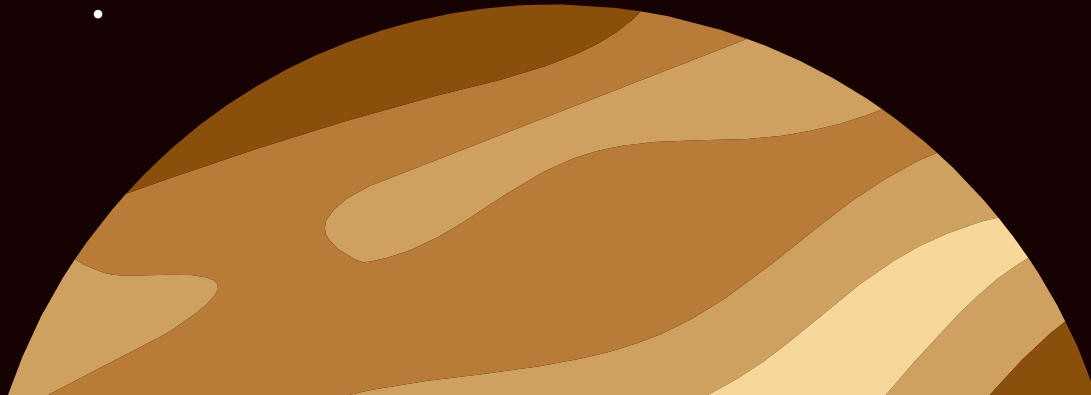


Let's Equip Our Future House in 3D!

Outfitting a Mars Habitat:
A 3D Print Challenge



Challenge Overview

The challenge aims to help astronauts on a one-year mission exploring the Mars planet.

Astronauts will use the 3D printers they have to craft the necessary tools and items required to survive and work.



Our Strategy

Since you cannot carry everything you need from Earth and to sustain the astronaut's life on the red planet, our team dug into different hazards astronauts will encounter and organized them into categories. After, we created a list of solutions to overcome the challenges by designing 3D-printed useful objects and tools.



Sectors

Work

Work goggles
Wire Saw
Hammer and shovel

Exploration

Portable telescope,,,

Furniture

Loft and suspended bed,,,

Emergency

Wrist brace,,,

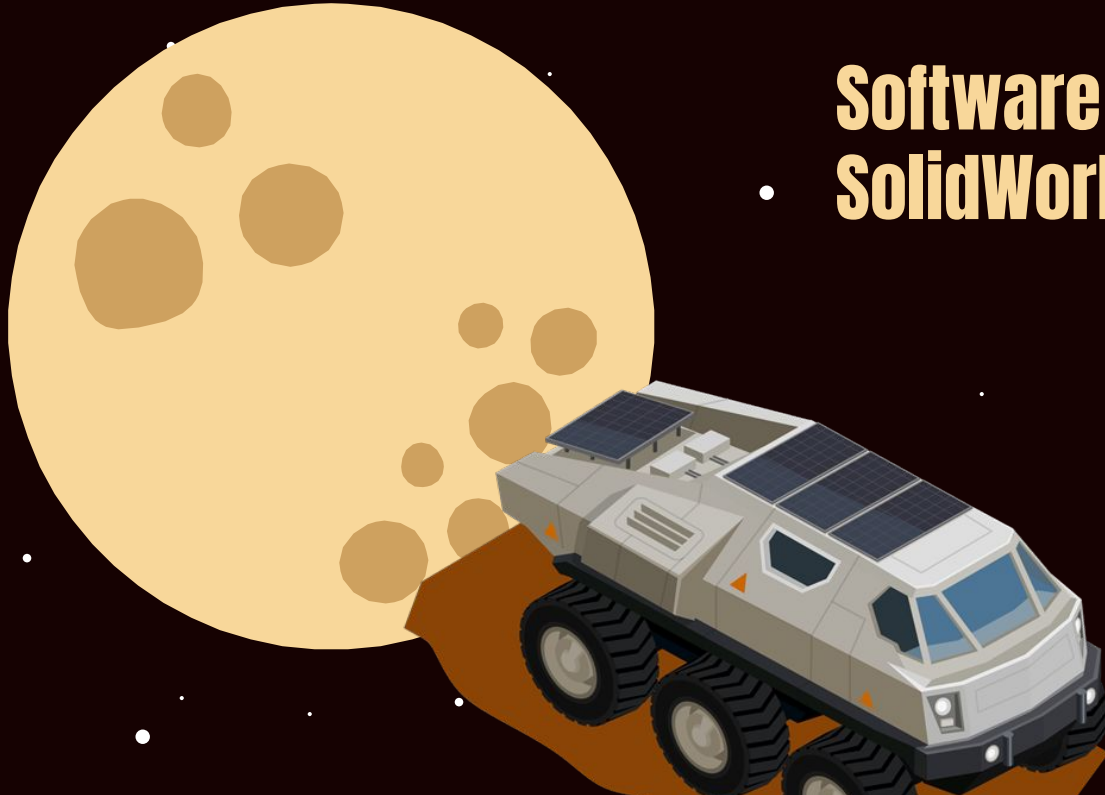
Quality of life & Health & Higiene (Malek)

Weightlifter
Hair brush,,,

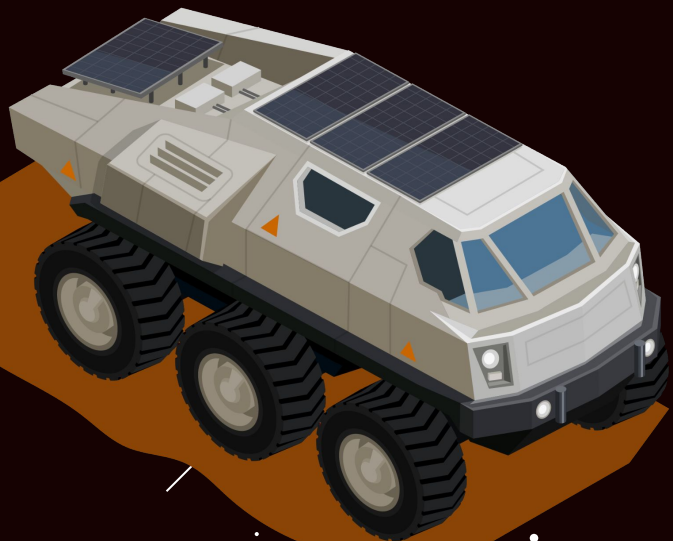
OTHER

Heating element
Screw on bottle citrus juicer,,,

Software Tool : SolidWorks

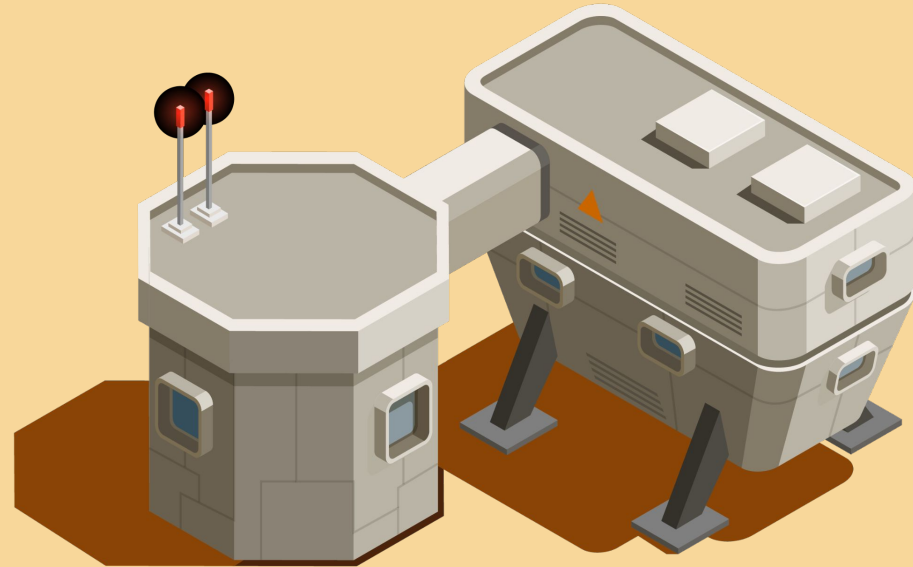


INTRODUCTION



Meet TUNSA Space Robotics Team

Elyes Khechine
Afef Salhi
Nesrine Abidi
Firas Raouin
Malek Sghaier
Sarrah Mannai



Resources

