



The future of space exploration

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AGENDA

PROBLEM STATEMENT
PROJECT OVERVIEW
PURPOSE AND
BENEFITS
WHO ARE THE END
USERS
JOB SEEKER AND
EMPLOYEES
FEATURES AND
FUNCTIONS
TOOLS AND
TECHNOLOGIES



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Space exploration has been a human fascination for centuries, driving innovation and pushing boundaries. Here's a brief overview:

Early Years:

Space exploration began with rocketry experiments in the early 20th century.

- The Soviet Union launched Sputnik 1, the first artificial satellite, in 1957.**
- The United States responded with Explorer 1 in 1958.**

HUMAN SPACEFLIGHT:

- YURI GAGARIN BECAME THE FIRST HUMAN IN SPACE IN 1961 (VOSTOK 1).
- NASA'S APOLLO PROGRAM LANDED ASTRONAUTS ON THE MOON SIX TIMES BETWEEN 1969 AND 1972.
- SPACE SHUTTLE PROGRAM (1981-2011) ENABLED REUSABLE SPACECRAFT

KEY FACTS

The sun

1. *GALAXY*: THE SUN IS SITUATE IN THE MILKY WAY GALAXY, A BARRED SPIRAL GALAXY.
2. *SPIRAL ARM*: THE SUN RESIDES IN THE ORION ARM, A MINOR SPIRAL ARM.
3. *DISTANCE FROM GALACTIC CENTER*: APPROXIMATELY 26,000 LIGHT-YEARS AWAY.
4. *GALACTIC HABITABLE ZONE*: THE SUN'S LOCATION ALLOWS FOR LIFE TO THRIVE.
5. *ORBITAL SPEED*: THE SUN ORBITS THE GALACTIC CENTER AT 230 KM/S, TAKING 230 MILLION YEARS TO COMPLETE ONE ORBIT



Space exploration technology

1. ***Propulsion***: Nuclear Thermal Propulsion (NTP), Electric Propulsion, Solar Electric Propulsion (SEP), Advanced Ion Propulsion
2. ***Space-Based Systems***: Space-Based Solar Power (SBSP), Quantum Communication, Satellite Data Analytics
3. ***Robotics & Manufacturing***: Space Robotics, In-Space Manufacturing, Autonomous Robotic Platforms
4. ***Materials & Energy***: Advanced Materials (SiC, GaN), Solar Arrays
5. ***Sustainability & Safety***: Space Debris Management, In-Situ Resource Utilization (ISRU)

Purpose of space exploration



The purpose of space exploration includes:

1. ***Understanding the Universe***: Gaining knowledge about the universe, its origins, and celestial bodies.
2. ***Advancing Technology***: Driving innovation and developing new technologies.
3. ***Improving Life on Earth***: Applying space research to benefit society, such as environmental monitoring and communication advancements.
4. ***Scientific Discovery***: Expanding our understanding of space, planets, and phenomena.

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SPACE EXPLORATION



Space

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CONCLUSION & DISCUSSION

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