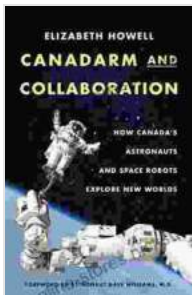


# How Canada's Astronauts and Space Robots Explore New Worlds

Canada has a long and proud history of space exploration. From the early days of the space race to the present day, Canadians have made significant contributions to our understanding of the cosmos. Our astronauts have flown on dozens of missions, and our space robots have explored planets, moons, and asteroids throughout the solar system.



## Canadarm and Collaboration: How Canada's Astronauts and Space Robots Explore New Worlds

by Elizabeth Howell

★★★★☆ 4.7 out of 5

Language : English  
File size : 10988 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 240 pages



## Canada's Astronauts

The first Canadian astronaut to travel to space was Marc Garneau. He flew on the space shuttle Challenger in 1984. Since then, more than 40 Canadians have flown in space, including eight women. Our astronauts have conducted spacewalks, performed experiments, and helped to build and maintain the International Space Station. They have also played a key

role in the development of new technologies, such as the Canadarm robotic arm.

One of the most famous Canadian astronauts is Chris Hadfield. He was the first Canadian to command the International Space Station. Hadfield is also a talented musician and photographer. He released an album of songs recorded in space, and he took some of the most iconic photographs of Earth ever taken.

## **Canada's Space Robots**

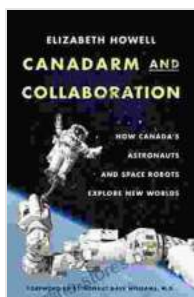
In addition to our astronauts, Canada has also developed a number of sophisticated space robots. These robots have been used to explore planets, moons, and asteroids throughout the solar system. Some of the most notable Canadian space robots include:

- **Canadarm:** This robotic arm was first used on the space shuttle in 1981. It has since been used on numerous space missions, including the construction and maintenance of the International Space Station.
- **Radarsat:** This series of satellites is used to collect radar data of Earth's surface. The data is used for a variety of purposes, including mapping, agriculture, and disaster relief.
- **SCISAT:** This satellite is used to study the chemistry of Earth's atmosphere. The data is used to improve our understanding of climate change and air pollution.
- **Juno:** This spacecraft is currently orbiting Jupiter. It is studying the planet's atmosphere, magnetic field, and interior.

- **OSIRIS-REx:** This spacecraft is currently on its way to the asteroid Bennu. It will collect a sample of the asteroid and return it to Earth for study.

## Canada's Contributions to Space Exploration

Canada's astronauts and space robots have made significant contributions to our understanding of the cosmos. They have helped to build and maintain the International Space Station, they have explored planets, moons, and asteroids throughout the solar system, and they have developed new technologies that have made space exploration possible. Canada is a proud spacefaring nation, and we look forward to continuing our contributions to space exploration in the years to come.



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