

Robots on the Space Station

Grades 4-5

August 15 – 19

9 am to 3 pm

Astronauts on the International Space Station (ISS) use robot assistants called ROBONAUTS to help them install and repair machines. In this exciting camp, students will learn to build and program robots using LEGO® WeDo and littleBits® modules, then work in teams to create a ROBONAUT which has a special skill that could someday help astronauts in space. This week of engineering includes training in radio transmission and reception, and how to track and map satellites - including the ISS. Students will speak live, by Ham Radio, with an astronaut on the ISS, earning a card from NASA indicating they talked to an astronaut



- Monday LEARN THE BASICS OF MOTORS AND GEARS
 CREATE LEGO WEDO ROBOT
 LEARN ABOUT RADIO COMMUNICATION
- Tuesday LEARN ABOUT LIFE ON THE INTERNATIONAL SPACE STATION
 LEARN ABOUT LOCAL ASTRONAUTS
 CREATE LEGO WEDO PROJECTS THAT WORK TOGETHER
- Wednesday TOUR KOPERNIK RADIO STATION
 LEARN RADIO LANGUAGE AND PROTOCOL
 EXPERIMENT WITH ROBOSAPIAN ROBOTS
- Thursday START TO CREATE A LEGO WEDO SPACE ROBOT
 LEARN ABOUT TRACKING THE SPACE STATION
 PRACTICE SPEAKING ON THE RADIO
- Friday COMPLETE LEGO WEDO SPACE ROBOT
 CONTACT ASTRONAUT ON SPACE STATION