Learning Series

Big head robot



This is a building-block programming robotics kit. The kit is equipped with various sensors such as sound sensitivity, color, touch, photoelectric, lantern, ultrasonic, camera and a wealth of building blocks. Students can use their imagination to build a variety of building block robots, and use graphical programming software to program the robot and experience the joy of hands-on creation.

Learning Target

01

Knowledge goal

Learn to use it.

02

Ability goal

Understand the concept of the program, the simple operation of hardware and software.

03

Emotional attitudes and values

Familiar with the basic operation of hardware and software, cultivate standardized practice.

Learning Target

01

Learning focus

Master the basic operations of RCU.

02

Learning difficulties

Understand the concept of programming and perform software operations.

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Course Introduction



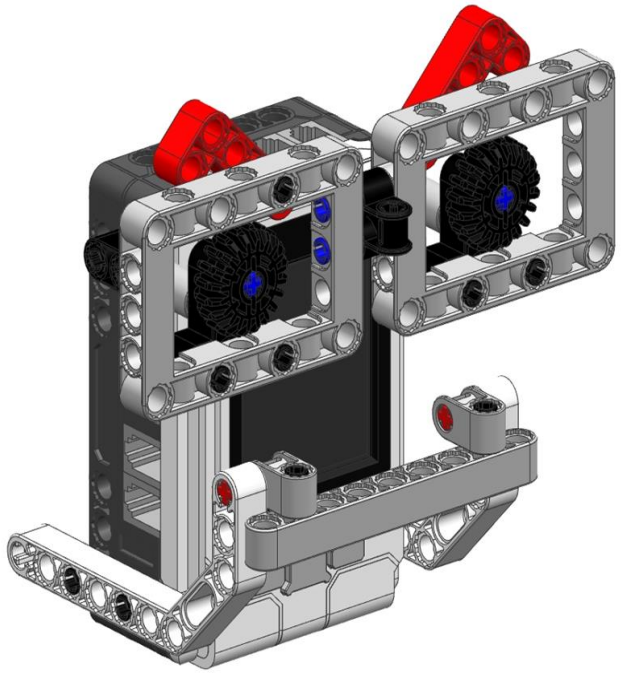
Course Introduction



What are the characteristics of this picture?

In the first few lessons, we learned a lot about the conventional knowledge of robots. The understanding of robots has not only stayed on the static structure. Then the class teacher will arrange a task for everyone, use the routines we have studied, and design a robot according to his characteristics.

Course Introduction



Big head robot

Know about the big head robot

This robot is designed with a focus on the head design. It can be used as a reference for some chucks or animated images. Since we haven't started learning the programming module, we use the routines we have already learned as the robot's program. Design the robot in turn, let's challenge and try it!

Teaching New Knowledge



Teaching New Knowledge

Big head

1. type: placed type

2. direction: furnishings

3. structure: interlock

4. shape: human



Teaching New Knowledge

Equipment matching: (set concept is gantry crane)

1. The base: need to be large and heavy, use RCU
2. Shape: in line with the shape of the human head,
   using small parts for splicing
3. five senses: "box" and gears are more consistent with eye features



Task Practice



Task Practice



Assembly requirements

1. stable structure
2. focus is right
3. shape match

Checkin
g Effect



Test Effect



Review the learning content and deepen your impression.

Question 1

What is the name of the robot made today?

Question 2

What materials are used in today's robots?

Question 3

What type of robot are you designing?

Test Effect



Homework

Demonstrate presentations based on your own work, such as the name of the work, the source of the inspiration, what is the most satisfying part of the design, and the mutual evaluation of the works.

Thank you for watching

BE STEM READY

