Building Instructions for the LEGO Wedo Set Program Code: A Comprehensive Guide for Educators and Students

Pterodactyl: Building instruction for the Lego Wedo 2.0 set + program code

★★★★☆ 4.6 out of 5

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The LEGO Wedo Set is a STEM (Science, Technology, Engineering, and Mathematics) education tool that allows students to build and program robots using LEGO bricks and a computer. The set comes with a variety of sensors, motors, and other components that can be used to create a wide range of robots.

This article provides step-by-step building instructions for the LEGO Wedo Set Program Code. These instructions are designed to be clear and easy to follow, with detailed explanations and clear illustrations. Educators and students can use these instructions to build and program their own LEGO Wedo robots.

Materials

Before you begin, you will need the following materials:

- LEGO Wedo Set

- Computer with LEGO Wedo software installed

- USB cable

Building Instructions

Follow these steps to build the LEGO Wedo Set:

1. **Start by building the base of the robot.** This will consist of a 2x4 brick and two 1x4 bricks. 2. **Next, build the body of the robot.** This will consist of two 2x2 bricks and two 1x2 bricks. 3. **Attach the head of the robot to the body.** The head will consist of a 2x2 brick with a 1x1 round brick on top. 4. **Attach the arms of the robot to the body.** The arms will consist of two 1x4 bricks and two 1x2 bricks. 5. **Attach the legs of the robot to the body.** The legs will consist of two 1x4 bricks and two 1x2 bricks. 6. **Finally, attach the sensors and motors to the robot.** The sensors will consist of a light sensor, a motion sensor, and a tilt sensor. The motors will consist of a large motor and a small motor.

Programming Instructions

Once you have built the robot, you can begin programming it using the LEGO Wedo software.

The LEGO Wedo software is a visual programming language that allows students to create programs by dragging and dropping blocks. The blocks represent different commands, such as moving the robot forward, turning the robot, and playing a sound.

To program the robot, follow these steps:

1. **Open the LEGO Wedo software.** 2. **Click on the "New Project" button.** 3. **Drag and drop the blocks into the programming area.** 4. **Click on the "Run" button to start the program.**

Troubleshooting

If you are having trouble building or programming the LEGO Wedo Set, try the following troubleshooting tips:

* **Make sure that all of the bricks are connected securely.** * **Check the wiring to make sure that all of the sensors and motors are connected properly.** * **Restart the LEGO Wedo software.** * **Contact LEGO customer support for help.**

The LEGO Wedo Set is a valuable STEM education tool that can be used to teach students about science, technology, engineering, and mathematics. The set comes with a variety of sensors, motors, and other components that can be used to create a wide range of robots.

The building instructions provided in this article will help educators and students build and program their own LEGO Wedo robots. The programming instructions will help students learn about visual programming and how to create their own programs.

The LEGO Wedo Set is a great way to engage students in STEM education and to help them develop their critical thinking and problem-solving skills.

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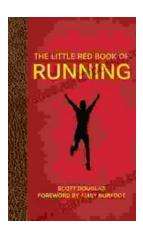**Lukasz Brodowski**

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DI DAVIDE OLDANI

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