

Comprehensive Building Instructions for the LEGO WeDo Set with Code Examples

LEGO WeDo is a robotics set that is designed to teach children about STEM concepts. The set includes a variety of bricks, motors, sensors, and a controller. Children can use the bricks to build robots, and then use the controller to program the robots to perform different tasks.

This guide will provide you with step-by-step instructions for building the LEGO WeDo set. We will also provide you with code examples that you can use to program your robots.

You will need the following materials to build the LEGO WeDo set:



Catcher: Building instruction for the Lego Wedo 2.0 set + program code by Zoi A. Philippakos

★★★★★ 5 out of 5

Language : English

File size : 8027 KB

Screen Reader: Supported

Print length : 260 pages

Lending : Enabled



- LEGO WeDo set
- Screwdriver
- Batteries

- Computer with the LEGO WeDo software installed
1. **Build the base.** The base is the foundation of your robot. It provides stability and support for the other components of your robot.
 2. **Attach the motors.** The motors are responsible for powering your robot. They can be used to drive the wheels, lift objects, and rotate parts of your robot.
 3. **Attach the sensors.** The sensors allow your robot to interact with its environment. They can be used to detect obstacles, measure distances, and determine light levels.
 4. **Attach the controller.** The controller is the brain of your robot. It receives input from the sensors and sends commands to the motors.
 5. **Program your robot.** Once you have built your robot, you can program it to perform different tasks. You can use the LEGO WeDo software to create programs that control the motors and sensors.

Here are some code examples that you can use to program your LEGO WeDo robot:

- **Drive forward:**

```
motorA.forward(100) motorB.forward(100)
```

- **Turn left:**

```
motorA.forward(100) motorB.backward(100)
```

- **Turn right:**

```
motorA.backward(100) motorB.forward(100)
```

- **Stop:**

```
motorA.stop() motorB.stop()
```

- **Detect an obstacle:**

```
if (sensorA.touched() == True): motorA.stop() motorB.stop()
```

- **Measure a distance:**

```
distance = sensorA.distance()
```

- **Determine light levels:**

```
lightLevel = sensorA.lightLevel()
```

The LEGO WeDo set is a great way to teach children about STEM concepts. The set is easy to use and the instructions are clear and concise. With a little bit of creativity, children can build and program robots that can perform a variety of tasks.

We hope that this guide has helped you get started with the LEGO WeDo set. If you have any questions, please feel free to leave a comment below.

Catcher: Bulding instruction for the Lego Wedo 2.0 set

+ program code by Zoi A. Philippakos

★★★★★ 5 out of 5



Language : English
File size : 8027 KB
Screen Reader: Supported
Print length : 260 pages
Lending : Enabled



French Pieces for Flute and Piano: A Journey into Enchanting Melodies

The world of classical music is adorned with countless gems, and among them, the exquisite repertoire of French pieces for flute and piano stands...



The Big Clarinet Songbook: A Musical Treasure for Aspiring Musicians

The clarinet, with its rich and evocative sound, has captured the hearts of music lovers worldwide. For aspiring clarinet players, honing their skills and...