

Section 4. Magicbit control PWM steering gear

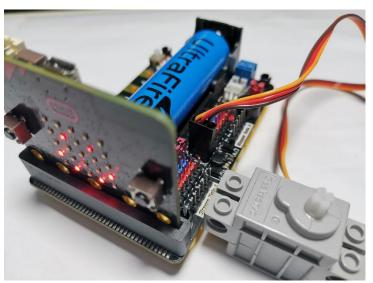
1. Achieve the goal

2. Preparation before class

3. Block programming



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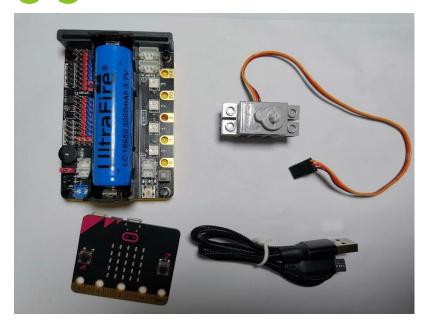


1. Achieve the goal

Use the microbit motherboard and Magicbit extension to drive the PWM steering gear. When button A presses the steering gear to the position of 30°, and when button B presses the steering gear to the position of 170°



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2. Preparation before class

prepare a microbit motherboard, a Magicbit extension, a USB cable, a computer, and a PWM steering gear



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3、 Block programming



1. In the Magicbit package, select the steering gear Angle programming block to control the PWM steering gear, select the white triangle symbol of the programming block to select the connecting pin of the steering gear, input the Angle value in the white circle box to control the steering gear rotation Angle.



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3、 Block programming

> 2. When the machine is turned on, the smiling face is displayed, and the button is looped to detect whether there is A button pressed. If the button A is pressed, the steering gear connected to pin \$1 will turn to the position of 30°, with A delay of 15; If button B is pressed, the steering gear connected to pin \$1 will turn to 170° , with a delay of 1s



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Download experievce

1. Click "download" to download the program to microbit and see the results of your programming



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Can you control both steering gear by pushing buttons?? Use your imagination and start creating!