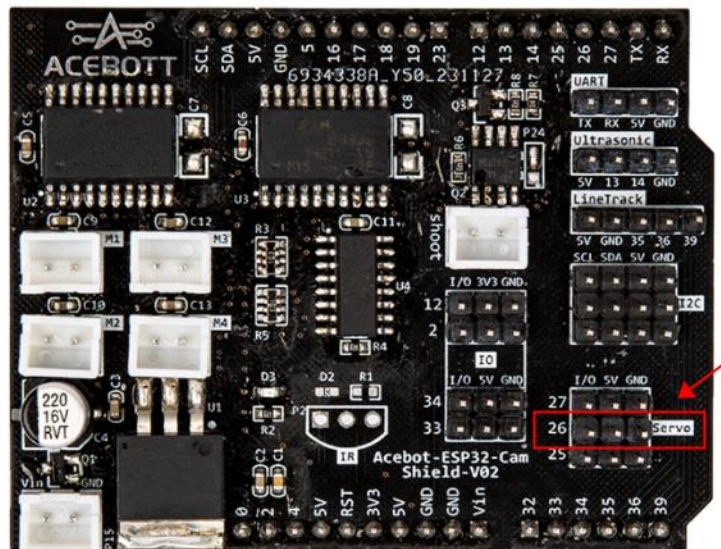


Prepare

1.Servo Angle Calibration Method

Connect the black MG995 servo module to the 26th interface of the ESP32 expansion board, ensuring the gray wire of the servo aligns with GND. Then, use a USB data cable to connect the computer to the ESP32 mainboard. After powering on, upload the servo angle calibration program. This step is to pre-adjust the servo angle to facilitate the subsequent assembly.

[\[Click here to get the servo calibration initialization program\]](#)



2.Assembly Steps

Follow the steps to assemble the water gel blaster car : [\[Click here to get the assembly steps for Shooting Car B\]](#)

3.APP Download (Skip if already downloaded)

(1) If you have an iOS device, search for the keyword "ACEBOTT" in the App Store and download the app. If you have an Android device, search for the keyword "ACEBOTT" in the Google Play Store and download the app. The icon is shown below.

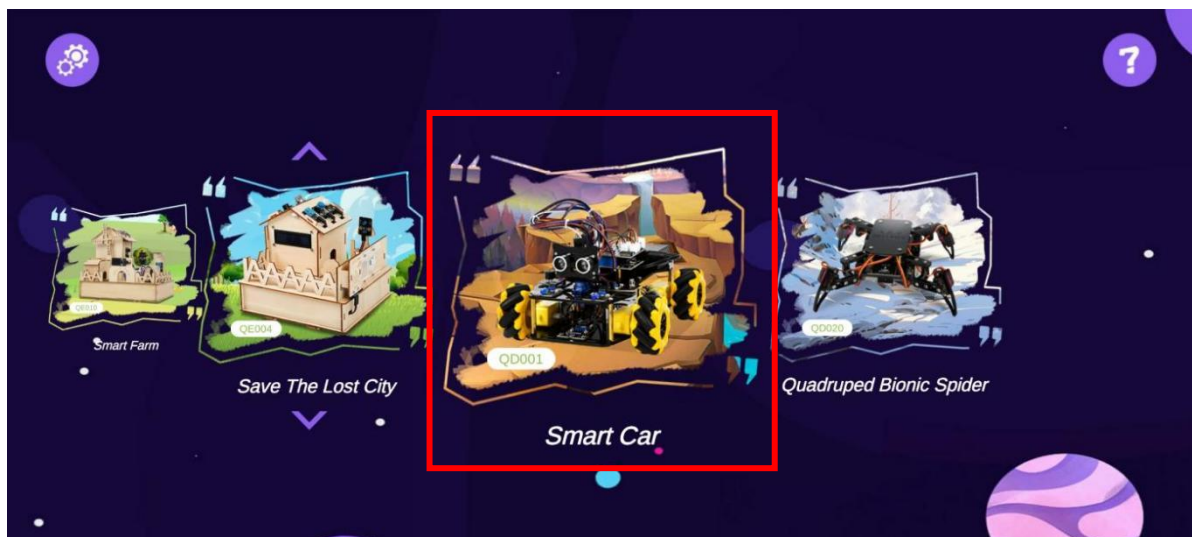


Note: 1. This tutorial is applicable to ACEBOTT APP version 2.0 and above. You can click the settings button in the upper left corner of the APP to view the software version number. Please make sure that the software version you are using meets the requirements; 2. If you need to update the ACEBOTT software version, you can refer to the method prompted in this tutorial to download the latest APP version.

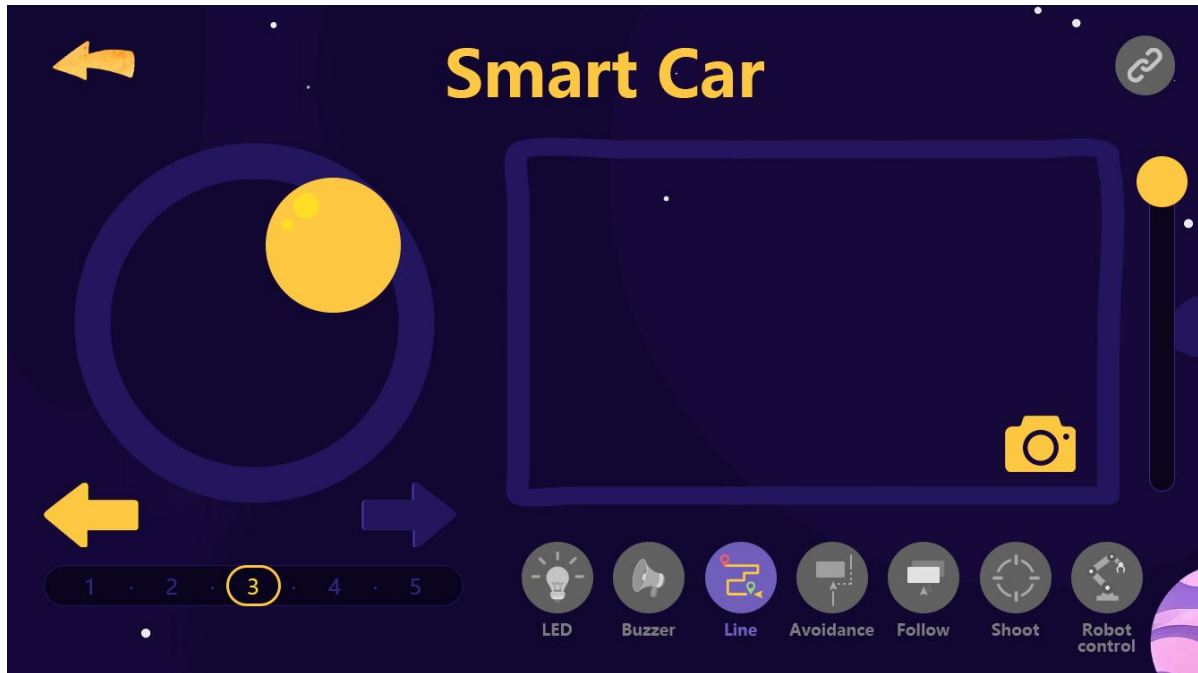
(2)After opening the app, you will enter the splash screen.



(3)Enter the selection interface and select Smart Car.



(4)Enter the water gun car control interface (it cannot be directly controlled yet, and the program needs to be burned).



4.Program burning

(1) Shooting Car APP Control Program

The app cannot control the shooting car directly yet, as the control program needs to be flashed onto the car's ESP32 mainboard first.

The program of the image-transmission shooting car includes the program of the water bomb car itself and the Cam module program, so it needs to correspond to different programs and upload them to different motherboards. Please turn on the power of the car before uploading.

①Smart car program: [\[Click to get the acebott-esp32-car-body program\]](#)

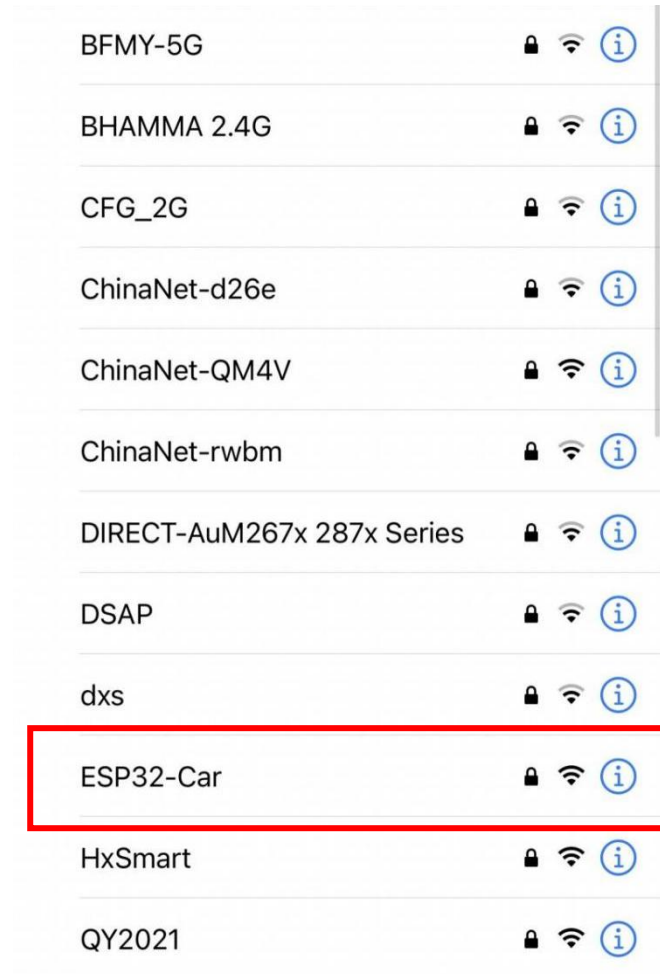
Note: When burning the program to the smart car's motherboard, you need to unplug the TX and RX cables of the camera first, and then connect the TX and RX after the program upload is completed.

②Cam module program: [\[Click to get the acebott-esp32-car-camera program\]](#)

(2)Connect to WiFi

Scan for WiFi on your phone (disable GPRS and other shared networks, ensuring

WiFi is the only network in use) by navigating to "Settings" → "WLAN". Connect to the WiFi hotspot named "ESP32-Car" with the password 12345678, as shown below.

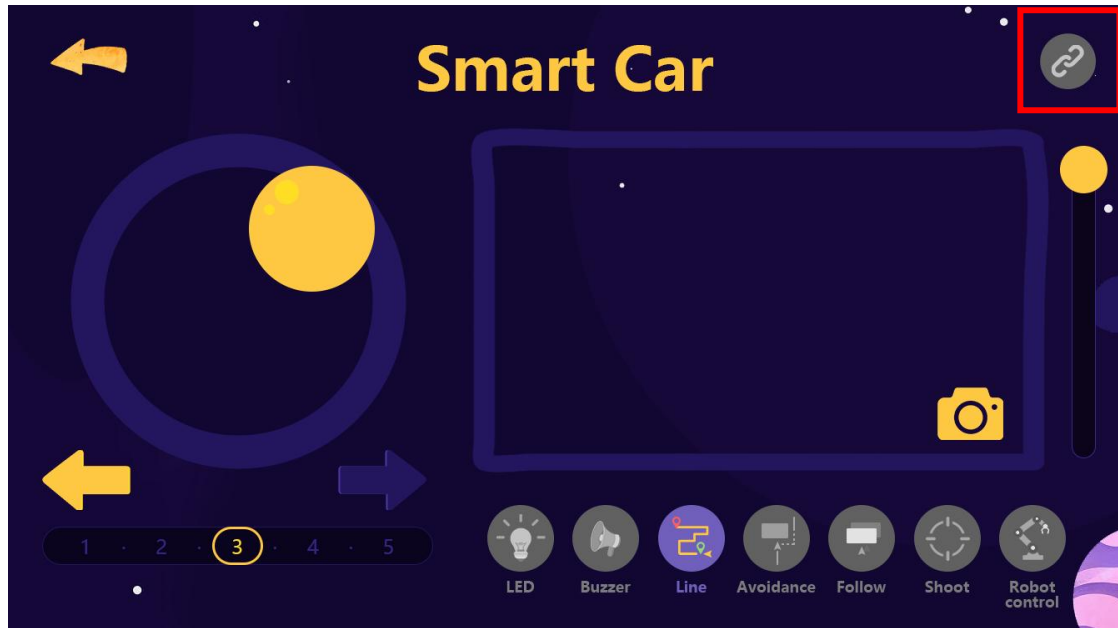


Note:The WiFi name and password can be customized. When we have multiple smart cars, we can distinguish each one by assigning different WiFi names.

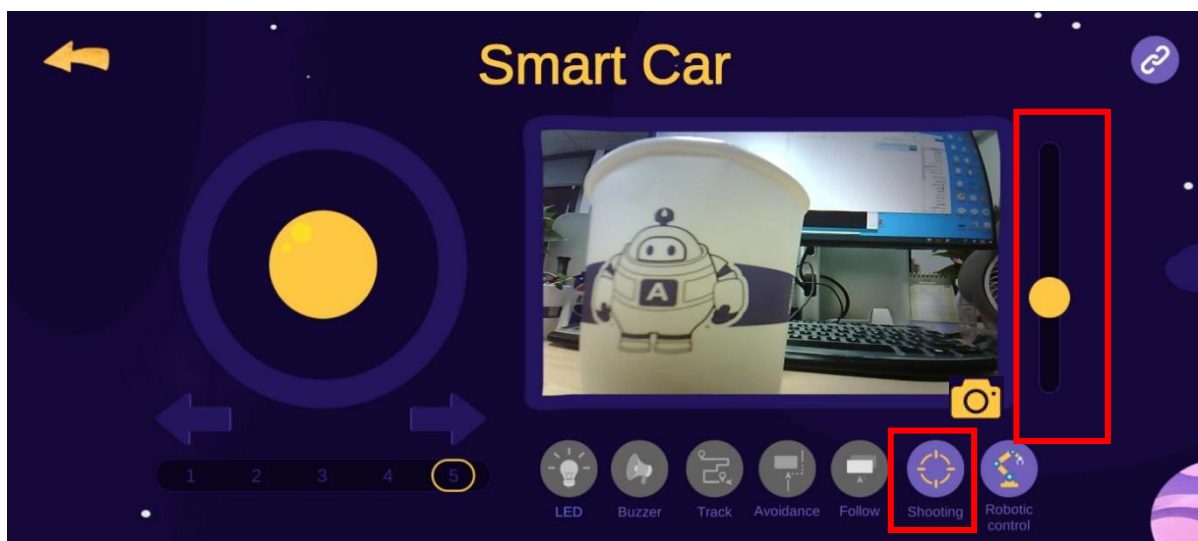
```
const char *ssid = "ESP32-Car";  
const char *password = "12345678";
```

(3) Control with the APP

① After connecting to the WiFi, tap the connection icon in the top right corner of the APP to complete the connection.



②The functions of the APP include: rockers and arrows realize the motion control of the water gun car. There are numbers from 1 to 5 below the arrow to indicate the speed of the smart car movement. The video box on the right can be imaged in real time. Click the photo icon in the lower right corner of the box. After that, you can save the picture currently displayed by the camera. Below the box are the corresponding hardware module functions. Click the Shoot button to control the launch of the water gun. The vertical slider on the right side of the box can control the aiming angle of the water gun.



5.Other

The first shooting of the water bomb gun may cause no sound due to the internal resistance, do not worry, at this time you can fire several times on the APP.