

Abstract

Our research topic is amphibious vehicle. We use Arduino connected to a motor module (L293d), and let Arduino programs with a motor module can be connected. And the motor module (L293d) to drive all of our motors. However we divide the motors into two parts. One of part we control the motor on the wheel when our car on the ground. The other part we control the motor on the propeller when our car into the water. Assuredly we can control the car to go forward 、turn right 、turn left and stop. We use kickboard to stick on our car's body, and make it didn't sinking in water. And use app inventor to make a mobile interface to connect car with Bluetooth. Because the mobile is very small, we can take it and control the car everywhere. We divide mobile interface into two parts. One of part we can control it to go forward 、go backward 、turn right 、turn left and stop on the ground. The other part we can control it to go forward 、turn right 、turn left and stop in water. And our car become a high mobility car. It is not only can move forward and backward. Finally we increase a fan on our wheel to improve car's mobility.