IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 1, June 2023

Robot Car Using ESP32 Cam

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Abstract: We have created a gesture-controlled robot car that can be controlled using a mobile application. we are using ESP32 Cam which is a low-cost camera module, and an Esp8266 controller with Bluetooth and Wi-Fi module. The mobile app sends the control signals as per gesture to the Esp8266 controller then this controller sends a signal to the motor driver to drive the motor and then the motor act accordingly the power to the whole circuit is provided by a 12v battery and the switch is connected to cut off the power. 9v battery is also used to power the Esp32 Cam. This robot is able to move and capture video and images as well as able to stream the video captured by the camera. In this project, we are using the ESP32Cam module which has in-built Wi-Fi and Bluetooth module as a camera, and Esp8266 as a controller of the robot car. This project provides a moving CCTV camera which is controlled over the internet and streams live video.

Keywords: Gesture control car, Remote control Car, Video streaming car, ESP8266 control car.

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