SMART PARKING SYSTEM

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Use and Inspiration

Use:

A Smart Parking System can be used in smart cities where a person can check whether a slot is available or not in the parking space before having to go there and if so, then the person can go there with no wastage in time.

Inspiration:

The inspiration was taken from when sir talked about smart cities projects being held up in IIIT-H.

Components Required

- ESP8266 NodeMCU
- DC Servo Motor
- IR Sensors
- LED
- Jumpers

Hardware

NodeMCU

NodeMCU is a low-cost open source IoT platform. It has a wi-fi module which helps in using it for different smart projects.

Hardware

IR Sensor

IR sensor detects object by emitting infrared(IR) rays. The transmitter(white) emits the light and when the light bounces back from the object the receiver(black) receives the light.

Hardware

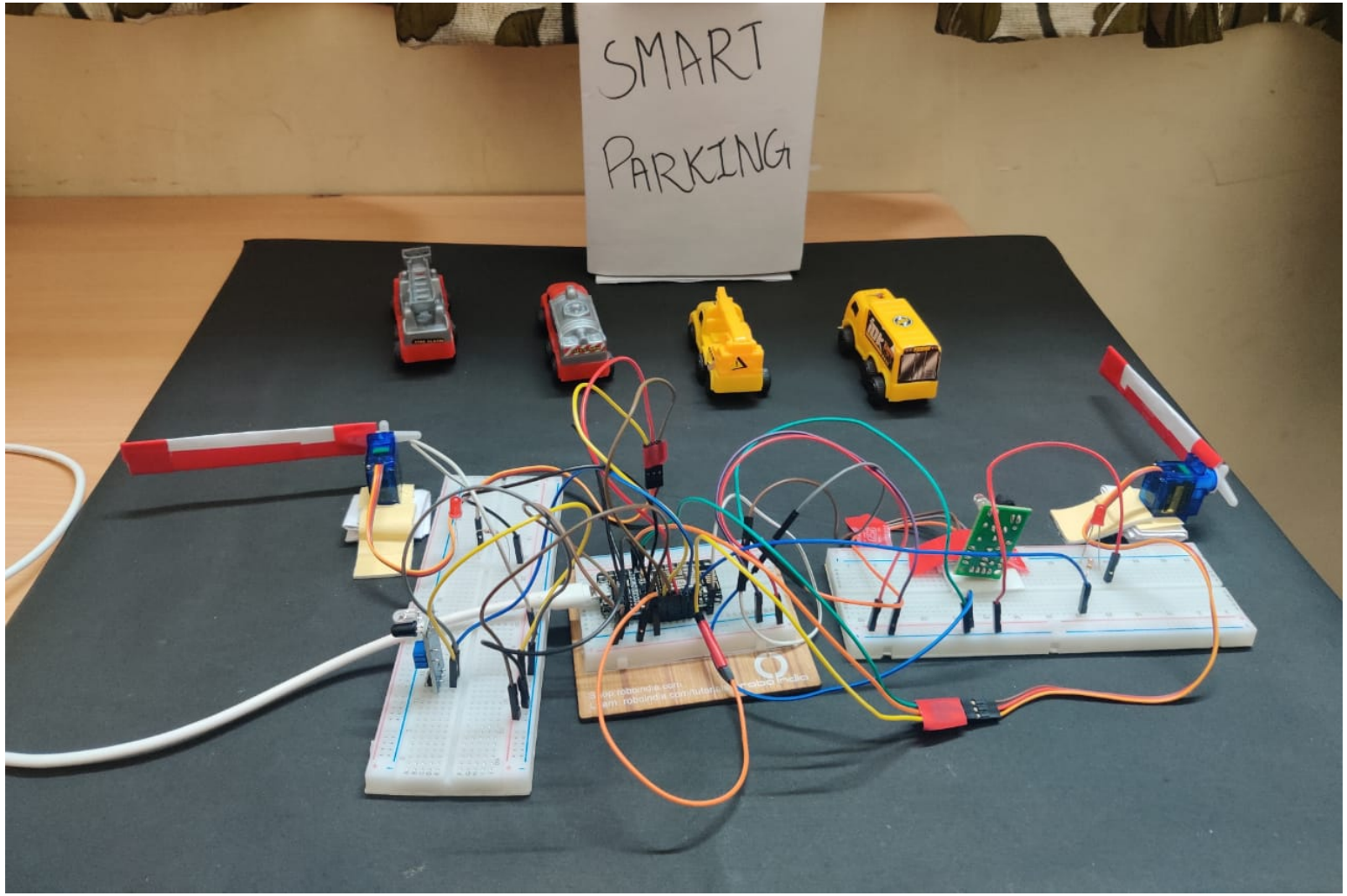
Servo Motor

Servo Motor serves as the two entry and exit gates. As the IR sensor detects an object the servo motor rotates and opens the gate for the car to pass.

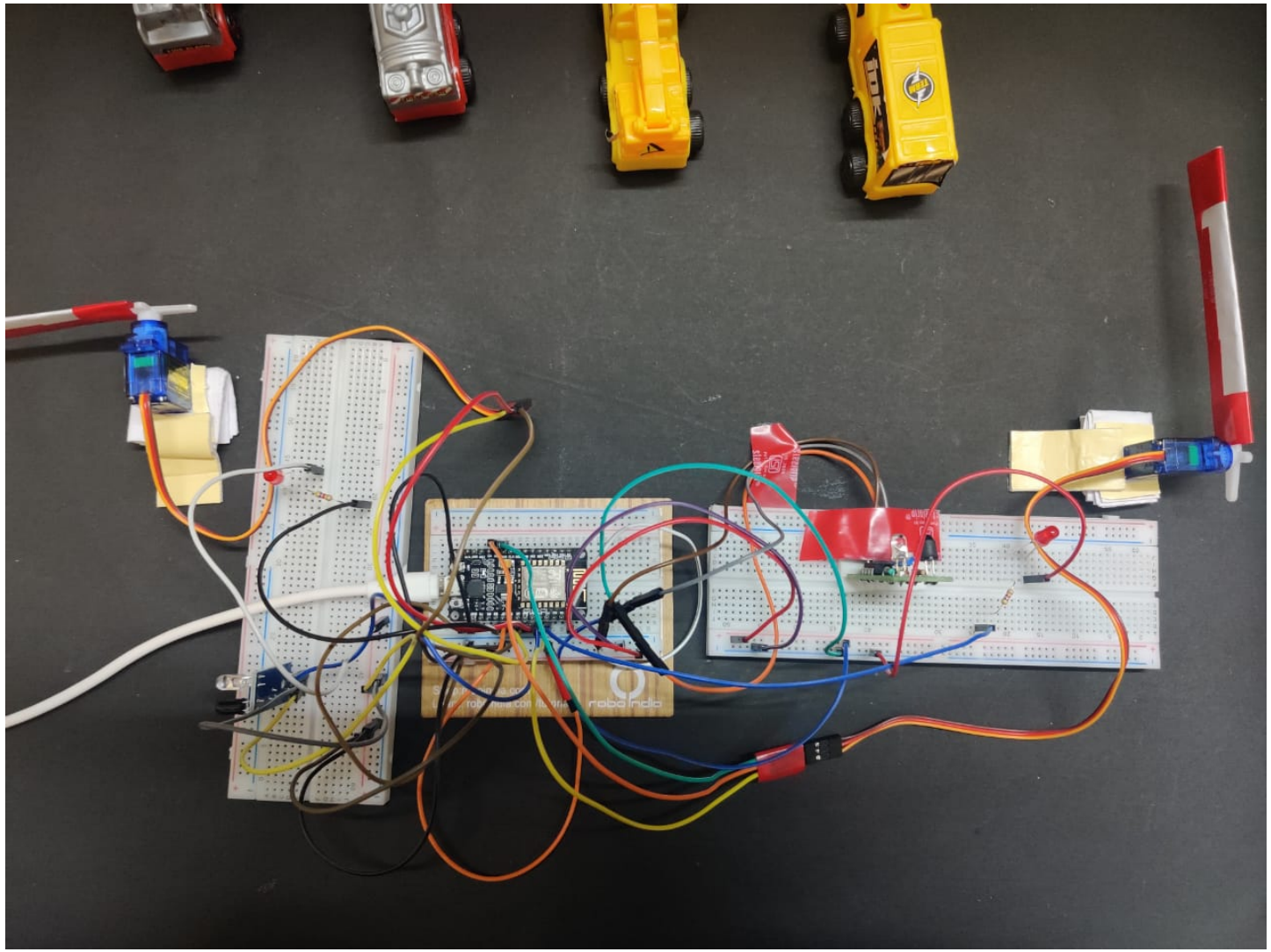
Hardware

Two LEDs were also used to show the presence of cars entering and exiting and all the wiring was done with different jumper wires.

Circuit



Circuit



THANKYOU