Report on

‘Raspberry Pi Car’

By

N Pravesh

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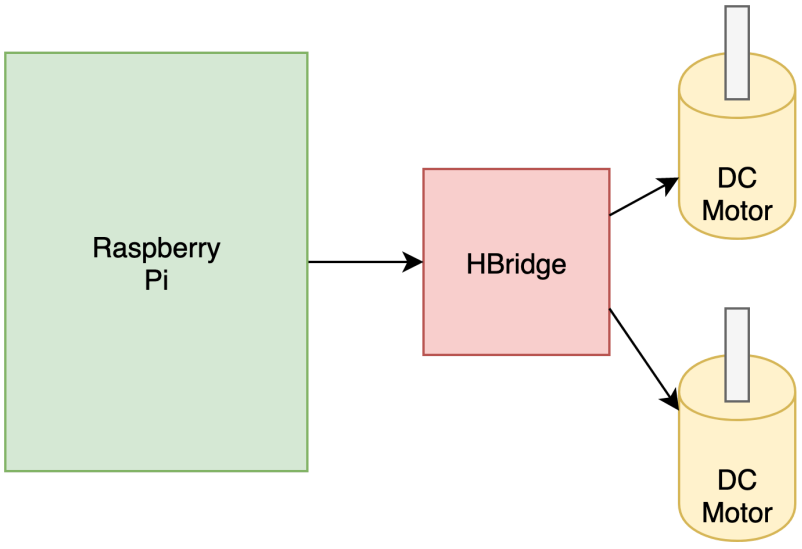
Objective:

To construct a Raspberry pi car.

Description:

The Raspberry pi car is designed to move in a predefined direction. In this project, the car moves forward, turns right and moves. Then returns back to the original position.

Block Diagram:



System Requirement Specification

Hardware Requirement:

- Raspberry Pi
- H-Bridge

- 2 x Dc Motor
- 2 x Wheels
- Chassis

Software Requirement:

- Python
    - Library: 1. RPi.GPIO
    - 2. time

Working Principle:

Raspberry pi commands the motors through h-bridge using the RPi.GPIO library. First, we move the two motors of the car to rotate in the opposite direction so that the car moves forward. Like so if we move two motors in same direction the car will move either right or left. This is the way we make the car move.

Circuit Connections:

- Connection of Raspberry pi to H-Bridge:
    - 23 - IN1
    - 24 - IN2
    - Gnd - Gnd

Result:

The result of the project Raspberry Pi car is verified and it satisfied all my requirements without any exceptions.