6. WORKING OF MODEL

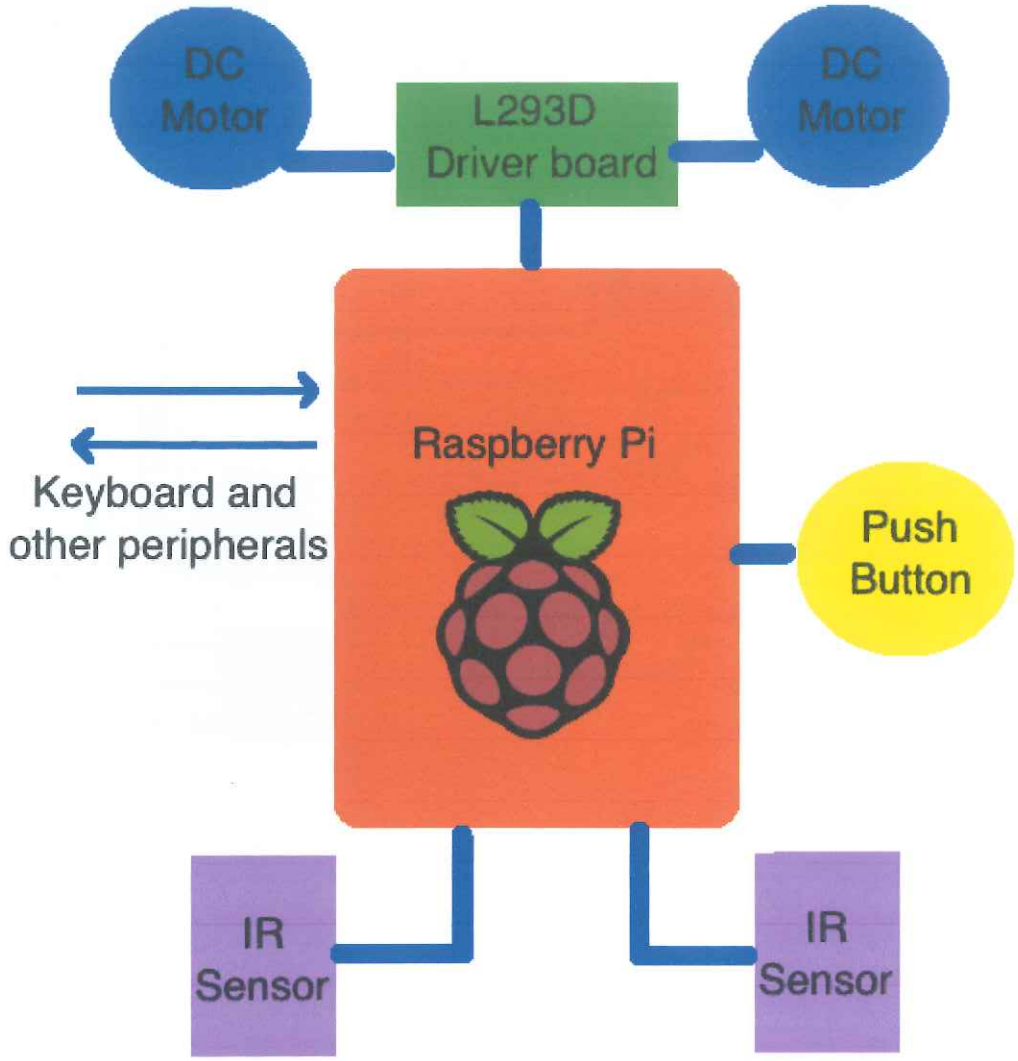

Figure 6.1: L293D MOTOR DRIVER

7 CIRCUIT DIAGRAM

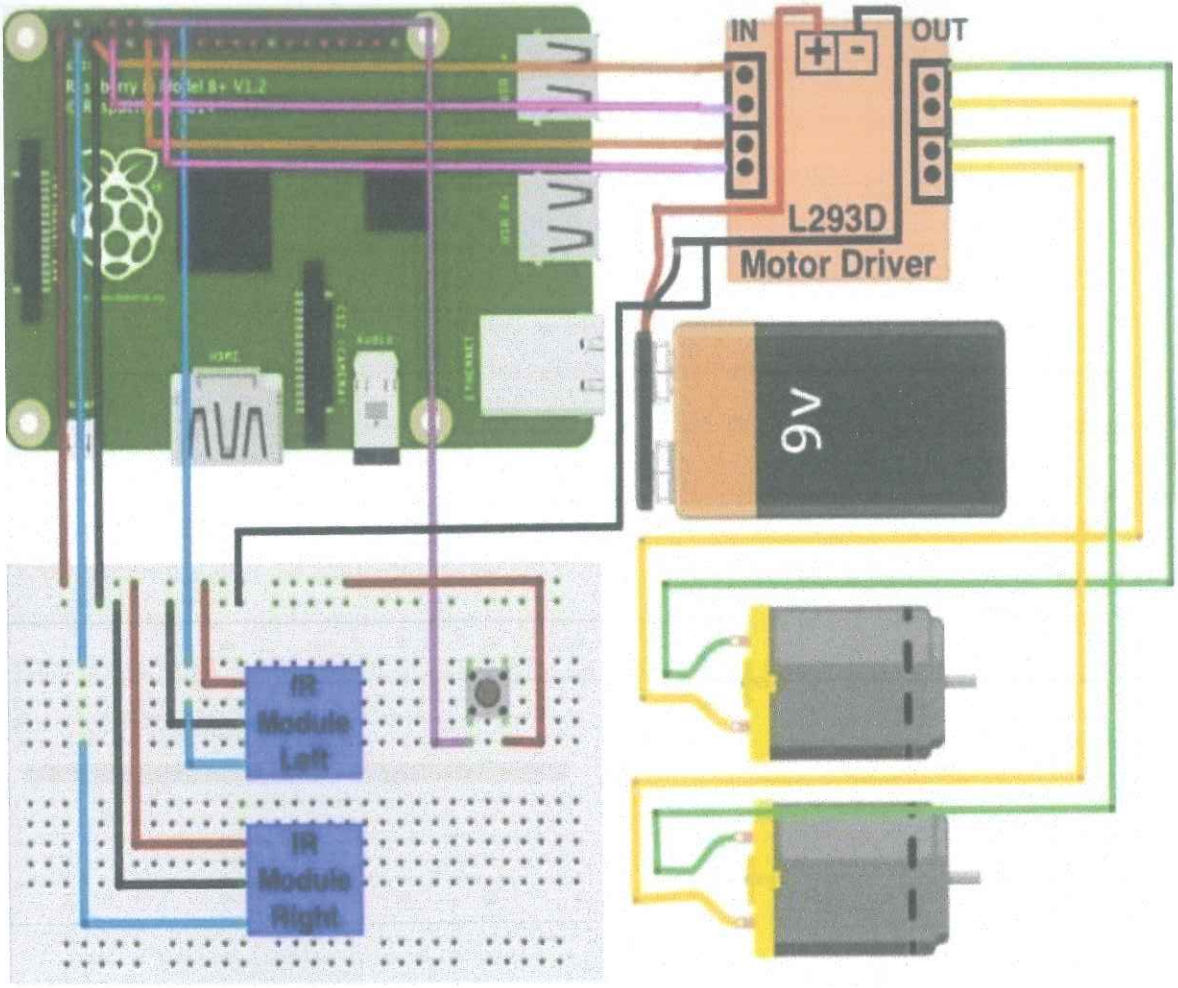

Figure 7.1 CIRCUIT DIAGRAM

CONCLUSIONS AND FUTURE WORK

In this project report, a solution is proposed to help visually impaired people to move safely and detect obstacles in their path. Solution is composed of a moving bot chassis with wheels, a DC motor, L293D driver module, power source and a pair of infrared sensors mounted on the front. The infrared sensors help change the direction of the bot when an obstacle is detected in the path of the person. The bot has the following features:

1) It is a cheap bot with a total cost not exceeding □4000.
2) Light weight components are integrated to the bot which make it user friendly.
3) It gives a fast response for obstacles in close range of 5-10 cm using infrared sensors.
4) It avoids confusion by indicating change in direction on detection of an obstacle.

Enhancements can be done to make the bot more mobile as compared to the current design. It can be made more compact so as to make it easier to carry. In addition, if a GPS is installed onto the bot, it could also help navigate the visually impaired person in outdoor environment.

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