



Fig.3 Serial peripheral interfacing (SPI)

VI. THE PROPOSED SOLUTION HAS FOLLOWING MERITS

- By looking at the alarms, a driver can be notified about which gear is currently.
- By interfacing it with the speed of the vehicle, we can alert a driver only if an improper gear is engaged.

VII. CONCLUSIONS AND FUTURE ENHANCEMENTS

A gear shifter is a fixture in a vehicle which allows the driver to select the gear ratios that are most appropriate for the speed and conditions. A classic place for the gear lever to mount is at the center console of the vehicle. The assembly unit is mounted to the gear stick. In a manual transmission car, drivers have the option of selecting gear ratios with the gear stick. In order to improve safety and comfort in manual transmission type vehicles, we have proposed our "automatic identification gear position system with electronic controlled method".

This is an innovative concept. It is a new dimension in the transmission system of a car. This is a simple and versatile pack. By implementing this system in a car, we can achieve smooth operations, save fuel consumption, reduce shift jerk and decrease friction in a clutch to controllable limits. When changing gears, the driver only needs to operate the shifter. An electromechanical or hydraulic actuator can be used to perform the engaging and disengaging of the clutch. It can relieve driving effort, making gearshift easier and improve the comfort with respect to a conventional manual transmission.

VIII. ACKNOWLEDGEMENT

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