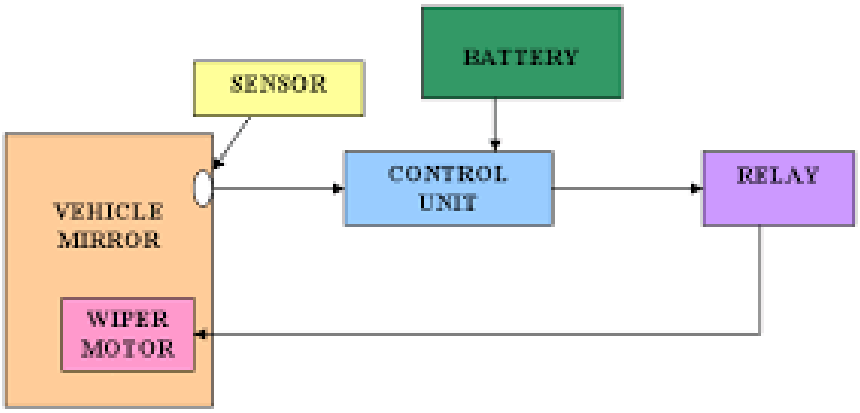
WIPER CONTROL SYSTEM

Design:

ABSTRACT:

The aim is to design and develop a control system based on an electronically controlled automotive rain operated motor called AUTOMATIC RAIN OPERATED WIPER. Rain operated motor consists of a conduction sensor (Touch sensor) circuit, Control Unit, wiper motor and glass frame. The sensor is used to detect the rain or water flow. If there is any rain on the glass, the sensor senses the rain or flow water and giving the control signal to the wiper motor. The battery supplies the power to the sensor as well as rain operated motor. Wiper motor is automatically ON during the time of rainfall. The senor is fixed in the vehicle glass. The conductive (Touch) sensor is used in this project. It senses the rainfall and giving control signal to the control unit. The control unit activates the wiper motor automatically. This operation is called Automatic rain operated wiper.

Block diagram:



Operation:

The battery supplies the power to the sensor as well as rain operated motor. Wiper motor is automatically ON during the time of rainfall. The sensor is fixed in the vehicle glass. The conductive sensor is used in this project. It senses the rainfall and giving control signal to the control unit. The control unit activates the wiper motor automatically . This operation is known as “Automatic rain operated”.

Design:

“Automatic rain operated wiper” was designed to control the wiper automatically based on the rain sensor detection. Rain operated motor was designed based on conduction sensor (Tough sensor) circuit, Control Unit, wiper motor and glass frame. The sensor was used to detect the rain or water flow. There was any rain on the class, the sensor senses the rain or flow water and giving the control signal to the wiper motor.

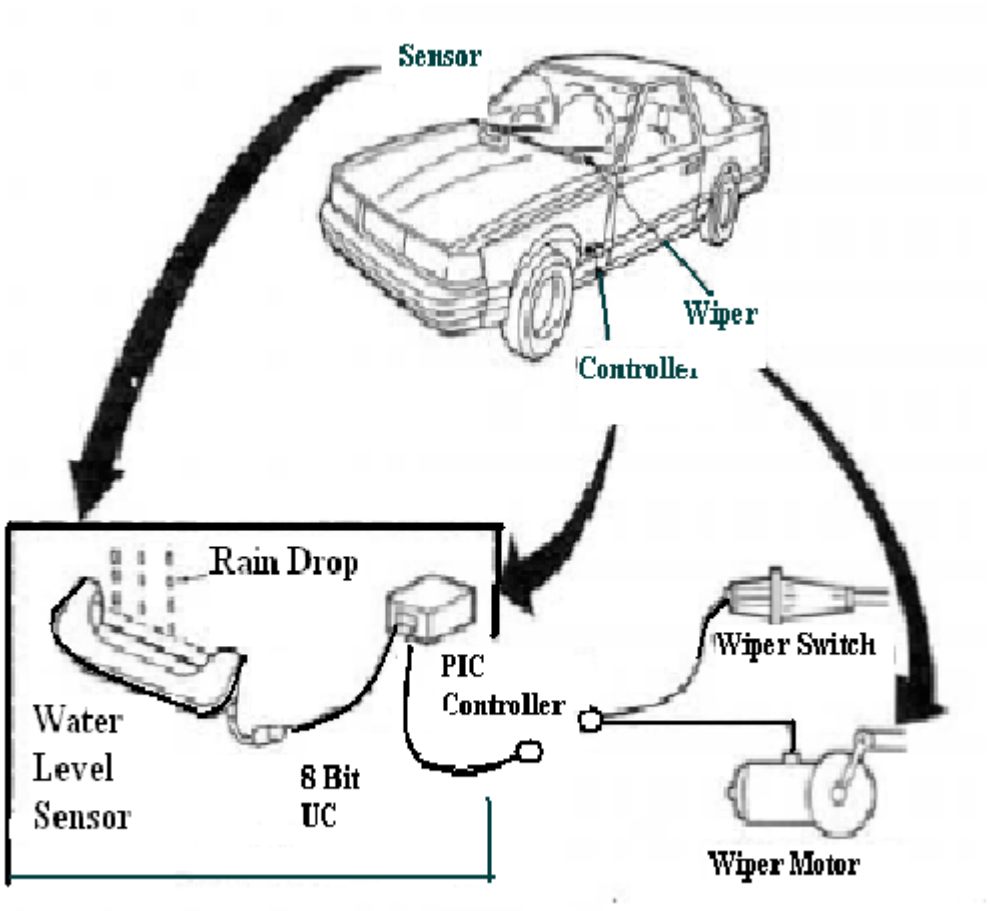


Fig 1. System Implementation On Car