Project Report

Analog and digital communication

In

ICT

By

Jay Patel(1741018)

Mohit Vaswani(1741039)

Prima Sanghvi(1741045)

Priyanshi deliwala(1741047)

Nimil Shah(1741048)

Aayushi ganatra(1741049)

Jaydeep Modi(1741070)

Shashwat mehta(17410100)

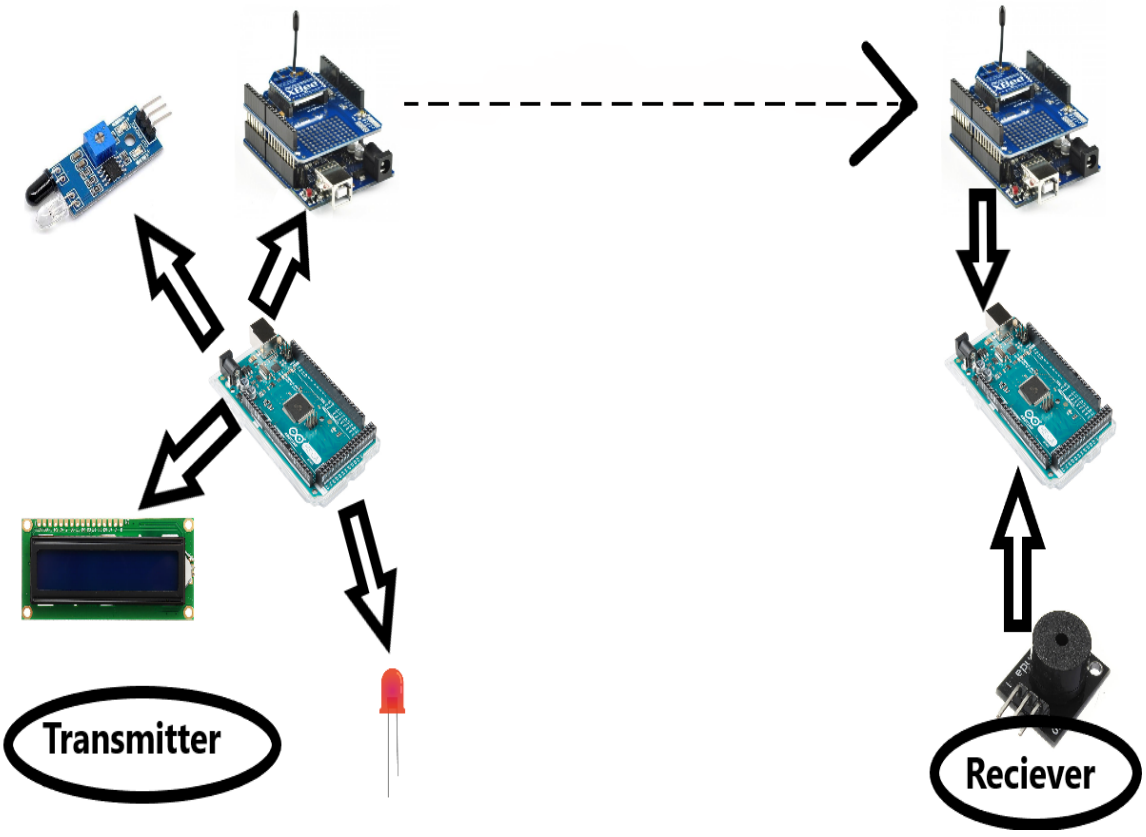
Project description

We aim to realize smooth motion of cars in the transportation routes.Our model will identify whether the violation of traffic rules using IR sensors and accomplishes dynamic following of traffic rules. While red light is on we will analyze that whether the ir sensor used for checking violation of red light is on or off. As a result traffic will flow smoothly. For demonstration in order to make sure that traffic rules are not broke, a buzzer will be implemented at the time a vehicle breaks signal, which in real life can be sensed through radio waves and memo can be send to their address from the license plate captured.We are transmitting data using XBEE and also receiving data using the same.

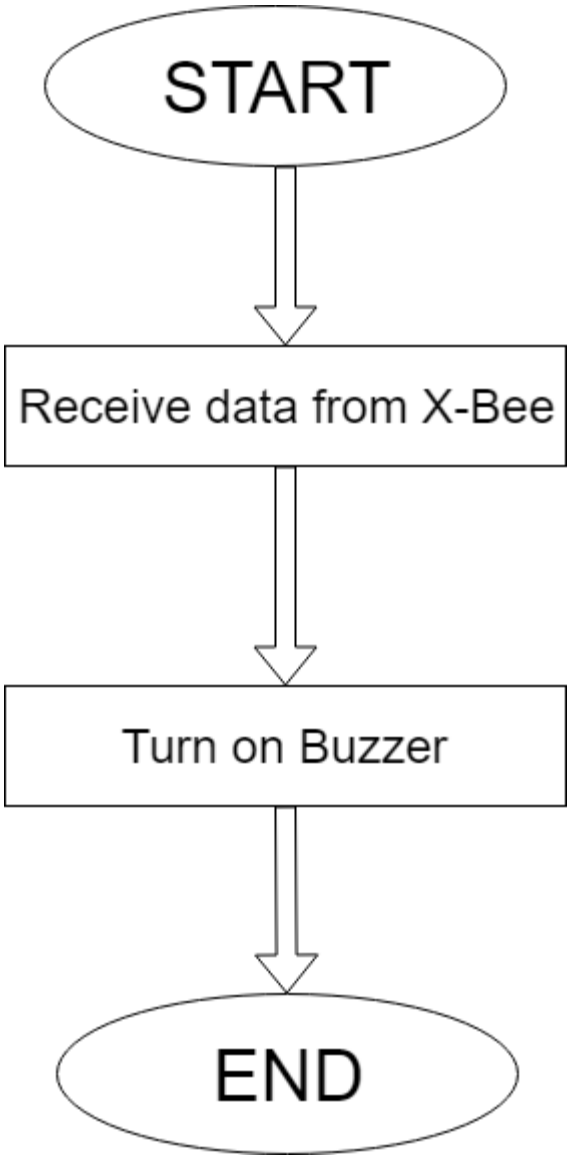
Final outcome

The final project will comprise of a circuit consisting of IR sensors sensing the intensity of traffic and accordingly the counters will be incremented and timer will increase in our circuit.Adapting this system will cause less traffic in real life situations and we are also aiming to control multiple signals at one time for future approach.

Block Diagram



Flow chart for receiver



Flow chart for Transmitter