



# Traffic Assist E-Bike

**Mohammed Safique, Archana Shirbhate, Aftab Ahemad Abdul Ansar, Anam Khan,  
Manish Madne, Pranay Lanjewar, Purval Manke**

<sup>1</sup>Department of Electrical Engineering, Anjuman College of Engineering and Technology, Nagpur, Maharashtra, India

**Abstract**— We have looked as the age is going speedy. there are huge quantities of the progressions are coming. People having there public vehicles more than 2 or 3 this burning-through more space and making metropolitan networks or areas altogether more amassed. As a result of this traffic is getting most of the troublesome issue in countless the metropolitan regions and across the world and it directly influencing the environment. this endeavor which is obtain insight is an Arduino traffic light structure. The endeavor presents an Arduino traffic light structure, considering RF transmitter and beneficiary, which is made in negligible cost high similitude easy to update is used for the leaders plan of traffic light and can be used as a road traffic system. The system is set so it will normally be checked and cooperation will proceed.

**Keywords** — Arduino, controller, traffic, eco-friendly.

## I. INTRODUCTION

In this stage as the world is developing quickly there are innumerable vehicles are on the streets. which are liable for the progressions in climate contamination is one of the significant emergencies the world is confronting nowadays. there is fast expansion in the cost of petroleum. Additionally, it's anything but workable for every one of the classes of the general public to buy vehicles like mopeds, bicycles, bikes and so forth Bike is an eco-accommodating vehicle and can be a choice yet the endeavors required is more. Likewise, it's anything but feasible for every one of the classes of the general public to buy vehicles like mopeds, bicycles, bikes and so forth Bike is an eco-accommodating vehicle and can be an alternative yet the endeavors required is more.

## II. METHODOLOGY

The traffic E-Bicycle has major and minor segments. The significant segments are the ones we need to accumulate from the outset to begin assembling the bicycle like picking: a steady casing, an engine that produce sufficient voltage, a dependable battery that gives the client the greatest time freeing. The minor parts are additionally significant in this bicycle anyway we can work around them. Which means we can leave them until the finish of the get together like: setting up the bike sensors and the information correspondence system. The situation is that a bicycle can naturally stop when the sign is red. We had proposed an IOT based programmed traffic light checking, and a programmed traffic light observing. The framework utilized the Arduino based circuit which assists with checking traffic light and sends the information online to the controllers .it depends on RF transmitter and recipient i.e Arduino traffic system it has different determinations it is not difficult to deal with, accessible for a minimal price, simple upgradation it is having simple administration and that can be utilized as a traffic light. The radio frequency is dependent on remote organization innovations traffic observing and so on Which is exceptionally valuable to control contamination and hence some assistance to climate.

## III. CONCLUSION

We had proposed an IOT based programmed traffic light observing, and a programmed traffic light checking. The framework utilized the Arduino based circuit which assists with observing traffic light and communicates the information online to the controllers .it depends on RF transmitter and recipient i.e Arduino traffic system .it has different determinations it is not difficult to deal with, accessible for a minimal price, simple upgradation it is having simple administration and that can be utilized as a traffic light. The radio frequency is dependent on remote organization innovations traffic checking and so forth Which is extremely valuable to control contamination and in this manner some assistance to climate.



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- 4)The producer of Arduino  has joined the Impatto Zero@policy of LifeGate.it. For each Arduino board produced is created looked after half squared Km of Costa Rica's forest's