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Traffic Assist E-Bike

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ABSTRACT

We have watched as the generation is going fast. there are many of the technologies are coming. People having there public vehicles more than 2 or 3 this occupying more space and making cities or areas much more crowded. Due to this traffic is becoming most of the serious problem in many of the cities and across the world and it directly effecting the environment. this project which is bring in observation is a Arduino traffic light system. The project presents an Arduino traffic light system, based on RF transmitter and receiver, which is made in low-cost high compatibility easy to upgrade is used for management system of traffic light and can be used as a road traffic system. The system is placed in such a way that it will automatically be monitored and process will proceed.

Keywords : Image recognition, convolutional neural network, Pattern Recognition

I. INTRODUCTION

In this phase as the world is growing rapidly there are innumerous vehicles are on the roads. which are responsible for the changes in environment pollution is one of the major crises the world is facing nowdays. there is rapid increase in the price of petrol. Also, it is not possible for all the classes of the society to purchase vehicles such as mopeds, bikes, scooters etc. Bicycle is an eco-friendly vehicle and can be an option but the efforts required is more. Also, it is not possible for all the classes of the society to purchase vehicles such as mopeds, bikes, scooters etc. Bicycle is an eco-friendly vehicle and can be an option but the efforts required is more.

II. METHODOLOGY

The traffic E-Bike has major and minor components. The major components are the ones we have to concentrate at first to start building the bike like choosing: a stable frame, a motor that produce enough voltage, a reliable battery that gives the user the maximum time ridding. The minor components are also important in this bike however we can work around them. Meaning we can leave them until the end of the assembly like: setting up the bicycle sensors and the data communication system.The scenario is that a bike can automatically stop when the signal is red. We had proposed an IOT based automatic traffic signal monitoring, and a automatic

traffic signal monitoring. The system used the Arduino based circuit which helps to monitor traffic signal and transmits the data online to the controllers.it is based on RF transmitter and receiver i.eArduino traffic system.it has various specifications it is easy to handle, available at a low cost, easy upgradation it is having easy management and that can be used as a traffic signal. The radio frequencyis based on wireless network technologies traffic monitoring etc. Which is very useful to control pollution and thus a helping hand to environment.

III. CONCLUSION

The traffic E-Bike has major and minor components. The major components are the ones we have to concentrate at first to start building the bike like choosing: a stable frame, a motor that produce enough voltage, a reliable battery that gives the user the maximum time ridding. The minor components are also important in this bike however we can work around them. Meaning we can leave them until the end of the assembly like: setting up the bicycle sensors and the data communication system.The scenario is that a bike can automatically stop when the signal is red. We had proposed an IOT based automatic traffic signal monitoring, and a automatic traffic signal monitoring. The system used the Arduino based circuit which helps to monitor traffic signal and transmits the data online to the controllers.it is based on RF transmitter and receiver i.eArduino traffic system.it has various specifications it is easy to handle, available at a low cost, easy upgradation it is having easy management and that can be used as a traffic signal. The radio frequencyis based on wireless network technologies traffic monitoring etc. Which is very useful to control pollution and thus a helping hand to environment.

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