

A Major Project Report on

DRIVERLESS METRO TRAIN

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

In partial fulfillment of the requirement for the award of degree of

BACHELOR OF TECHNOLOGY

In

ELECTRONICS AND COMMUNICATION ENGINEERING

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CERTIFICATE

This is to certify that the Major Project Report entitled “ **DRIVERLESS METRO TRAIN**” submitted to JNTUH is carried out by the following students of IV B.Tech in the partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and Communication Engineering during academic year 2022-23.

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ABSTRACT

Nowadays the modern technologies are helpful in all aspects of our life. Due to this lots of development done in the field of transportation. In the previous years, with the use of regular metro train accidents occur due to various reasons like the fault of the driver, signal errors and another major problem is, the human-operated metro train has no control over time, mean inaccuracy in time which affect the railway network management system.

To solve this problem we have a new concept of the driverless metro train. Auto metro train implemented and developed at low power and high efficiency. This system provides automatic running, gives information about the number of seats available, automatic opening and closing of doors by using sensors, station display and source to destination display. The automated metro train becomes a most efficient in terms of energy consumption.

Driverless metro train is a smart technology of this era. This can be used in most of the progresses countries to reduce traffic problems and also to enhance the safety. These trains are outfitted without a driver which reduces man power. It contains Arduino based controller programmed using Arduino C which facilitates the programmed stopping of train from one station to the other. There are three motives behind building this project. Our aim is reduce man power to large extent. This technology is used to generate automatic messages and warnings which enhance the safety of passengers. It also contains automated framework. This project helps people who travel huge distances to reach their workstations.



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