

A

Project Report

On

AUTOMATIC RAILWAY GATE CONTROL SYSTEM

Submitted to

Department of

ELECTRONICS & COMMUNICATION ENGINEERING

By

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(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

Ananthasagar (Vill), Hasanparthy (M), Warangal.

2022-23



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CERTIFICATE

This is to certify that the project entitled “AUTOMATIC RAILWAY GATE CONTROL SYSTEM” carried out by the following students of III Year B.Tech in Electronics and Communication Engineering during the academic year 2022-23.

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ABSTRACT

The Indian Railway is the life line of Indian people. Keeping in mind the security of people also the free running railway without any problem. We have to focus in the safety part of this system. The project railway track crack alert system is a forward step to improving the railway system. In this project, we mainly focused on the safety. This project makes the Indian railway more reliable. This project concern to a process for monitoring the condition of train tracks and more specifically to allow maintenance crews to subsequently find these defects. Microcontroller acts as brain of the system it controls all system performance. We use DC Motor, when it gets Starts, through Motor Driver. IR sensors are fixed in Robot which is used to find out the crack on the track. The sensor will transmit the IR rays to the track and there will be continuous receiving of rays, if there is any crack the signal is received by receiver, the motor stops automatically. The sensor will inform this by giving Buzzer and sends information using ESP8266 WIFI module to the smart phone mobile app.



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