PES UNIVERSITY BENGALURU

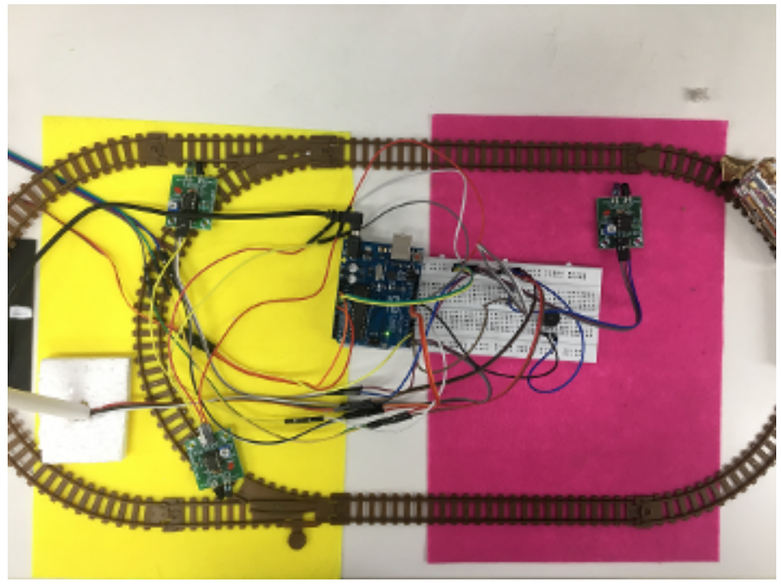
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

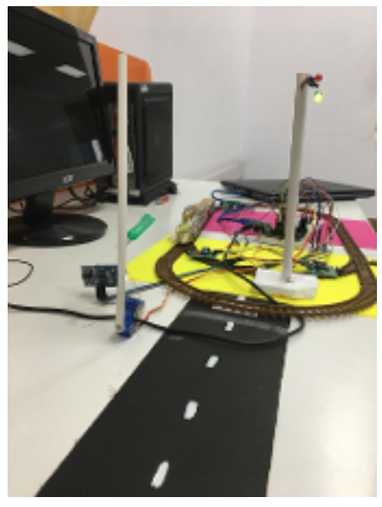
Subject Title:Microprocessors & Computer Architecture Lab *code: UE17CS256*

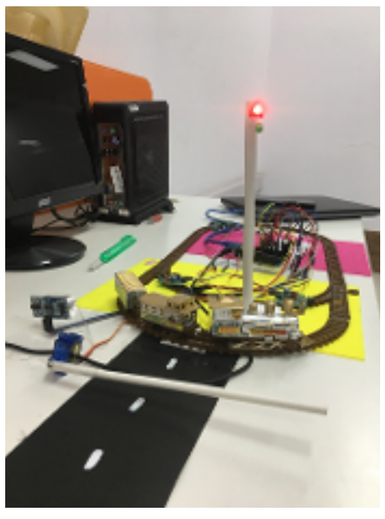
TITLE:AUTOMATED RAILWAY GATE CONTROLLER USING HIGH SPEED ALERTING SYSTEM

Abstract

The objective of this project is to provide an automatic railway gate at a level crossing replacing the gates operated by the gatekeeper.The system reduces the time for which the gate remains closed. The system works on a micro-controller based control. The proposed system uses Arduino Uno micro-controller. With the help of IR sensors, the arrival and leaving of the system is monitored and the gate is operated accordingly with the help of Servo/DC Motor.







Working

- Detection of train by IR Sensor : When train arrives near crossing the sensor detects its motion and then it closes the crossing way of cars or other vehicles.
- When the train further crosses the cross way other sensor detects the motion and opens the cross way.
- The detection of objects by IR sensor controls the motion of DC motor which monitors the motion of Cross Way.

TEAM

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