AUTOMATIC SELF DRIVEN TRAIN USING MICROCONTROLLER WITH OBSTACLE DETECTION SYSTEM

A PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATIC SELF DRIVEN TRAIN USING MICROCONTROLLER WITH OBSTACL DETECTION SYSTEM." is the bonafide work of the following students

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

Now a days train cannot run without man power , if any medical risk happens for driver, it is less safety for passengers travelling inside the train .And it requires more cost for human labour. In the existing System the train does not stops when it finds any obstacles at the front. It occurs very risk to the passengers travelling inside the train. The main objective is to prevent Human errors and see how security can be increased. By using sensors, and by today's technologies. To increasing the rate of arriving trains, or running services outside the usual hours, there are no extra costs in human labour. By removing the driver from the train, the human-risk factor is reduced and overall safety and reliability of the system increases. The trains are effectively monitored and controlled by staff based in a remote control centre. The system we introduce here is fully automatic train .we introduced it to prevent train accidents. The train stops in every station for a particular time period .It opens and closes the door automatically.Before closing the door it will be indicated by buzzer sound .Here we are indicated the open and closing of doors by led on and off. In this proposed system we can control our train from direct control room by the use of RF transmitter and RF receiver.and here we also introduced the LDR which is used to save the power. We also introduced obstacle avoiding sensor IR (Infra-Red) sensor which stops the train automatically when the sensor finds the obstacle

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