

(54) Title of the invention : Shuttling of metro Train between Stations using Autopilo

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(57) Abstract :

This invention technology used in metro train movement. This train is equipped with a controller that enables the automatic running of the train from one station to another. This proposed system is an autonomous train and it eliminates the need of any driver. Thus, any human error is ruled out. In this project ARM 7 has been used as CPU. Whenever the train arrives at the station it stops automatically, as sensed by an IR sensor. Then the door opens automatically so that the passengers can go inside the train. It is equipped with a passenger counting section, which counts the number of passengers leaving and entering the train. The door then closes, and the train starts after a prescribed time (there will be a time set already as to how many minutes the train will stop at every station) set in the controller by the program. The passenger counts and the stations are displayed. The movement of the train is controlled by a motor driver IC interfaced to the ARM 7. The train incorporates a buzzer to alert the passengers before closing the door and also warn them before starting. As the train reaches the destination the process repeats thus achieving the desired operation

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