

ABSTRACT

The increased growth in the railway sector has resulted in an increase in the train traffic density across the world. This has resulted in the increase in the number of accidents involving trains. In this paper, the proposed system includes several features which prevent train accidents. It includes collision detection, fire detection, detaching of coach automatically when fire is detected in it and track continuity. This system also deals with saving of electricity and switches on the fan and light only when required.

It also includes water level indicator to indicate the amount of water in the bogie. This system makes use of IR sensors, fire sensor, PIC microcontroller and other embedded systems.

Keywords: Train control block, track control block, PIC microcontroller, IR sensors