

AUTOMATIC RAILWAY CROSSING SYSTEM

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ABSTRACT

The aim of this paper is to design an automatic railway gate controller using microcontroller. This mainly aims at preventing accidents at unmanned level crossings where many accidents take place every day. The automatic railway gate controller makes use of two sensors placed at both sides of the gate placed at a particular distance. The sensor detects the arrival of train and sends signal to the microcontroller to close the gate and similarly the sensor at the other end detects the departure of the train and sends signal to the microcontroller to open the gate again for public use. The usage of this automatic railway gate controller using microcontroller will largely reduce the chances of accidents at unmanned level crossings and provide immense safety. This report deals with the designing and operation of this automatic railway gate controller.

KEYWORDS: Railway Gate, Level Crossing