

Automatic railway gate control by DIP and Embedded system

Present railway gate control system is manual system. The operation of railway gate is control by human being. When the gate controlling person gets the call from station, he closes the railway gate. While closing the gate, he takes care that no one should trap between the gate.

Our aim behind this project is to automate the existing railway gate control system. Here to automate the system, we use embedded system and digital image processing. At certain calculated distance, sensors to sense the railway are build. These sensor sense the presence of railway and give signal to system. The system starts closing operation of gate. Here we use digital image processing as a feedback system. The photograph of ground field around gate is taken. By processing this photograph, any presence of vehicle is identified. If there is no vehicle closing operation of gate takes place. If there is presence of vehicle, the system slowdown the closing operation of gate. In this way safely the closing of railway gate takes place.

