Circuit Construction of Automatic RailWay Gate Control System By Using Arduino Uno

Khant Khant Lin[1], Sein Se Myo Khaing[2] and Ohmar Oo[3]

Abstract

The aim of this research is to provide an automatic railway gate at a level crossing replacing the gates operated by the gate keeper. The system reduces the time for which the gate remains closed. This type of gates can be employed in an unmanned level crossing where the chances of accidents are higher and reliable operation is required. Since, the operation automated, error due to manual operation is prevented. The system uses ATmega 328P Arduino Uno processor with IR sensor, two servo motor and buzzer.

Key words: Arduino Uno, IR sensors, Red and Green LEDs, servo motors, Buzzers

1. Associate Professor, Dr., Department of Physics, Yangon University of Education
2. Lecturer, Dr., Department of Physics, Yangon University of Education
3. Professor, Dr., Department of Physics, Yangon University of Education