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Version Number:

Team Members :

Team No:

Module: Model Based System Engineering

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| **Ver.Rel. No.** | **Release Date** | **Prepared. By** | **Reviewed By** | **Approved By** | **Remarks/Revision Details** |
|  | 20/02/2022 | Ramprasath B |  |  |  |
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**Document History**

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Case Study on Automated Railway Crossing System

Description:

Road accidents are the major causes for the death in our country.Most of the deaths are happening in level crossing.Absence of railway crossing is the major reason for accidents.This project is based on vehicle warning system.This system is based on the position of the trains by using the GPS in the trains.

**Requirements:**

High Level Requirements:

HR01-Warn the drivers.

HR02-Closing of Gates.

Low Level Requirements:

LR01-Display the position of the train.

LR02-Display the speed of the train.

# Block Diagram:

Diagram

Description automatically generated

**Components Required:**

1.Microcontroller

2.L293D motor driver-For controlling of gates.

3.LCD display-For displaying the trains position etc.

4.Buzzer-Alarm.

5.Infra red sensor-For motion deduction.

6.Inductive sensor-For deducting the position.