



NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY
(Department of Electronics & Communication)



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Internal Guide:- Harshad Shah,

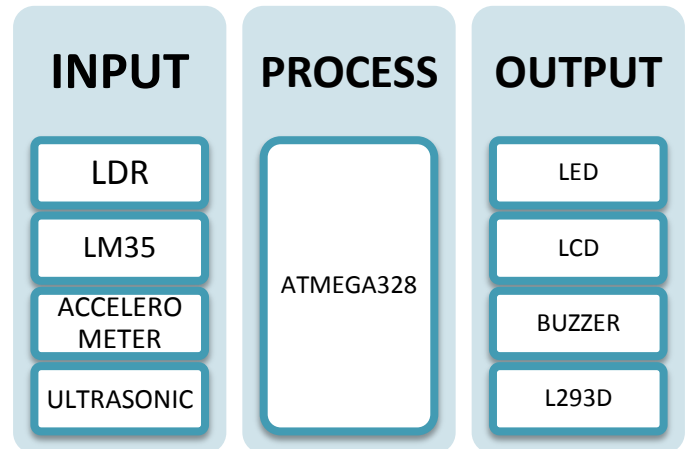
External Guide :- -

Project Title:- A HIGHLY SECURED INDIAN RAILWAY TRAFFIC HANDLING USING LABVIEW.

Abstract:-

- With the growing interest in the railway sector, mainly because of energetic reasons, there is also a need to increase the efficiency of the railway lines.
- One way to optimize this sector is to improve quality in the train control process itself. Nowadays, train dispatching is still mostly done by human operators that use elementary tools and thereby solving conflicts sub-optimally.
- The new high speed railways are typically operated in mixed speeds modes, in these cases the traffic operators are mainly concerned with managing the traffic flows more than in the details of commanding the underlying signaling systems.
- Due to all of these issues, the traffic management systems must be re-designed from systems that are oriented to the control through exceptions to, systems that allows control through re-planning, building up integrated systems for strategic and tactical plan nning and real time re-planning.

Block /circuit Diagram:-



Major Hardware components used:-

Arduino (ATmega328), LDR, LM35, ACCELEROMETER, Ultrasonic, LED, LCD, BUZZER, L293D

Project Application:-

- Tilt/Roll.
- Impact detection.
- Vehicle skid detection.
- Vibration.
- Input/ feedback for active suspension control systems

Approx. Project Cost:- 3000

Project Photo:-

