

Visvesvaraya Technological University, Belgaum –590014



PROJECT REPORT

ON

AUTOMATION OF RAILWAY SAFETY USING EMBEDDED CONTROLLER

(Sponsored by KSCST Bangalore)

Submitted in partial fulfillment of the requirements for the award of

**BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING**

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ABSTRACT

The word 'Wireless' means sending the signals without using any wires. The whole purpose of the 'Wireless' is to eliminate the any kind of cabling between the source and destinations. Not only that, also to get the work done in more reliable way with fast speed. In simple way, if the process takes place using the Radio Frequency and Infra Red Rays, without using any type of cabling is called as Wireless Communication. For example, if the protection of any vehicle is accomplished using less work supervision and more self-caring and self-decisive devices. It may be referred as 'that vehicle is automated'.

With the golden rule 'prevention is better than cure', vehicle can be well protected from any major accident or disaster or damage by automating it. In brief, 'Vehicle Automation' means protecting or doing every-day running processes using any electronic or computer guided instrument.

A train is the second popular conveyer of the people next to Bus. Railways are the lifelines of a country. The automation of train is essential as a mishap makes more damage to its travelers and the department.

Our present Model is a minor attempt to find out how the aforesaid idea can be implemented. Though this model will not serve the purpose of actual commercial use, yet it is sufficient to show the way through which we can proceed to make the Train Systems completely automatic with the aid of Electronics.