

APPLICATION OF ELECTRONICS INSTRUMENTATION IN RAILWAYS

FOR EARLY REPORT OF PROBLEMS

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ABSTRACT

This paper consist of the implementation of the major techniques of electronics in the order to create a multitasking device which can used in order to check the defects in the tracks of the railways. The idea is to implement a certain kind of tracking device which could check all the disparities present in the bogies of the train. The tracking device is present over the rails which track the distance between the rails, presence of a bomb, any breakage of track etc. The idea behind the device is by the use of proper sensor, multiplexer, data loggers, telemetry etc. the data is received and transmitted through a channel to the receiver. The use of this system can be done over certain tracks to record the information and provide it to the user when required.

KEYWORDS: Data Loggers, Telemetry, Encoders, Mux