

## Literature survey

Author	Title	Source	Findings
Naveen Bhargav et al. (2016)	Automatic Fault Detection of Railway Track System Based on PLC (ADOR TAST)	International Journal of Recent Research Aspects	The sensor is used to detect defect in the train track and the ultraviolet sensor is used to detect the obstruction in front of the train.
B. Siva Rama Krishna et al. (2017)	Railway track fault detection system using IR sensors and Bluetooth technology	Asian Journal of Applied Science and Technology (AJAST)	In the event of any defect on the track it will detect track defect using IR sensors and then it sends a message to the android phone using Bluetooth module.
Parvathy A. et al. (2017)	Automatic Railway track fault detection for Indian railways	IEEE	The Automatic Railway Route automatically detects the fares of the Indian IEEE Rail Automatically and detects cracks very quickly without human intervention.
Swati D. Patil & Pallavi. M. Taralkar (2018)	Train track fault detection system	International Journal of Current Engineering and Scientific Research (IJCESR)	Rail crashes have been identified as a major cause of accidents in the past. So, the solution to this problem is using the robot to detect cracks in the train track and when the robot detects an error it sends a message to the base station

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Mansi R. Sarwan et al. (2018)	Automated Railway Track Fault Detection System Using Robot	International Conference on New Frontiers of Engineering, Management, Social Science & Humanities	An IR (Slot sensor) assembly that tracks the exact location of a faulty track was quickly repaired so that many lives could be saved.
M. Banupriya et al. (2019)	Self Powered For Railway Track Monitoring Using 10T	IOSR Journal of Engineering (IOSR JEN)	This has resulted in a rapid increase in surveillance of systems, buildings, vehicles, and machines using sensors.