

## **ABSTRACT**

In the train system, monitoring is used for many functions, such as for interlocking, signaling, etc. Monitoring train position prototype based on Wireless Sensor Technology aims for train position monitoring. Wireless sensor network is use for data communication between node and central data. Node is a combination of sensor, controller, and communication module. Node as an input of monitoring train position used for monitoring the train along the rail. Data is send from node to central data, then central data processing the data transmitted from node.

The result of processing data by central data are train position and train arrived time estimation to last point. train position and train arrived time estimation to last point are are the output of monitoring electric train system. The result of train monitoring system will be delevoped for controlling the speed of train, automatic level crossing and interlocking system.

**Key words: Wireless sensor network, Train, Monitoring, Node, Data.**