

## **Abstract**

The human need for information is very large, therefore, made a Running location information in the form of text, sound and pin point on the train. A Running text, sound and pinpoint usually contain information such as the location. But the provision of information on public transport is not maximized. One obstacle is the cost incurred will be very much to menbuat posters or flyers to distribute at penumpang.dan the information provided in the head rail difficult to hear because the train too hard voice. Then at the end of this project created a system that utilizes mikrokonroler as a solution to solve the problems above.

To overcome the above problems then be made Running text, voice and pinpoint which can be applied in the railway transport. This information system is designed to use a microcontroller arduino UNO as a control system, Global Positioning System (GPS) as a medium to show the location of trains that can be displayed in the form of Running text, sound and pinpoint the LED board and route of the transport train itself.

Based on test results, the system can provide information regarding the status of the location where the position location for the train. The information that is given in the form of running text, voice and pin point on the map train lines The error testing location by GPS in a stationary position with the open condition is 6.9554 meters, fault location by GPS testing in a stationary position with gps conditions covered is 27.189 meters , The incoming voltage is 4.93 V Maximum system. The average delay for show location data of test results is 44.25 seconds.

**Keyword:** *Running text,voice, pinpoint,train , Global Positioning System*