

ABSTRACT

Estimated Time Arrival Notification System of Commuter Line Train Based on Arduino Uno

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Delays in the arrival of commuter line trains can be caused by a variety of reasons, from incidents, shared train tracks, and accidents. Train passengers often do not know the delay information so they do not know for sure when the train will arrive. The arrival estimation notification system is a prototype device based on the Arduino Uno microcontroller which is useful for providing information about the estimated time of arrival of trains by using ultrasonic sensors to detect passing trains. The data obtained by ultrasonic sensors will go through a calculation process to determine the estimated time needed by the train and send the data using the HC-12 module to display on the LCD Display so that passengers can find out information about the estimated arrival of the next train.

Keywords: *Notification System, Estimated System, Commuter Line Train, Arduino Uno Microcontroller*

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