UNIVERSITI TEKNOLOGI MARA

AUTOMATED TRAIN ANNOUNCEMENT USING GPS

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ABSTRACT

On board train announcement in KTMB is currently done manually by train drivers where it often results in improper and incorrect announcement. The precious technology of GPS was utilized in this design to develop the prototype of automated train announcement system. Data obtained from satellite was input into GPS receiver. A microcontroller will extract the satellite data obtained through GPS receiver where location data was obtained. This location data is used in the programming to calculate the shortest distance between the current location of train and stations in its route. The microcontroller is programmed in such a way that it could determine the approaching station and finally trigger the voice chip to produce the appropriate announcement. A testing of the prototype has been conducted and it has successfully functioned as appropriate. With automated system, announcement problems occurred due to human errors could be minimized and standardized announcement could be realized.

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TABLE OF CONTENT