

“RF BASED STATION NAME DISPLAY”

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A project report

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Abstract

One of the main form of communication that has been in use since 19th century is Radio Wave communication. Radio Waves have found its place in each and every field whether it may be medical, electronics or space. In general it exists in every system in one or the other form. The use of Radio Waves had made life much simpler and safer. A heart patient can be monitored by a doctor remotely sitting in his chamber because of the use of Radio Waves. Radio Waves have made communication through telephone, internet etc easier and cheaper. Our project demonstrate one such example were Radio Wave is employed in a way which is helpful to us. This project is designed and developed for helping the passengers traveling in train and bus especially during night. The people who are not aware of the station on which one should get down will find this very helpful. Here the station name is displayed and announced simultaneously when the station is about to reach which can assist both literate and illiterate.

The proposed model incorporates an Transmitter unit and Receiver unit operated with the battery for it's power supply. Since it is an automatic display and announcement special embedded technology is carried in to it which can transmit and receive the data. There is a transmitter unit which transmits the signal via antenna. There is a receiver unit which records the received information from the antenna and cause operations like automatic display and vocal announcement simultaneously. In designing this model at most care is taken to reduce the cost and is focused on eliminating the problem faced by the passenger in total.