ABSTRACT

Eye is very important for humans, with eye of people can do a lot of activities but not everyone has a normal eye. One can not see is called blind. When blind people go to a place definitely confused whether the places they visit are correct or not. Under these conditions, this final project development of blind sticks: RF based location awareness for the blind can detect a location with sound output. RF based location awareness for the visually impaired have two module, namely module NRF24L01 and WTV020M01. In this final project has developed 2 trasnmitter for building and 1 receiver for blind stick. The NRF24L01 module is used to transmit and receiver signals RF, WTV020M01 for audio output, Arduino Uno for receiver and Arduino Nano for transmitter as the system control center and Lithium Battery for receiver charger. This prototype works when within the range of less than 40 meters form the building to the blind sticks and transmitting data from the transmitter to a receiver mounted on the blind stick will output audio when the button is pressed.

Keywords : Blind, Receiver, Transmitter.