

ABSTRACT

Persons tuna net which We know they have limitations in vision so that mobility limited. So that obstacles which appear is worries party family when disabled blind is at outside house because position they difficult for in watch . For moment this obstacle which experienced disabled blind when is at in the place general not yet fully resolved . The solution made stick clever which could help disabled tuna net for walk and navigate . Stick the be equipped with module GPS neo 6m which integrated with module SIM 8001 which the goal for send data form longitude and latitudes, Data location the then shipped form notification with help SIM 8001 to number which already registered previously in the Arduino program, and stick the also in instill sensors Ultrasonik which function as detection hindrance , Buzzers function as alarm or warning form voice if there is hindrance which read by Ultrasonik sensor. With exists stick the party family disabled blind could know position member family which use stick the and no need worry when currently traveling . Based on testing which has held so concluded that making tool Prototype Tool Help Blind in the form Stick Use arduino ,Module Neo 6m GPS and SIM 8001 for detect hindrance and location disabled Blind this could work with good . Stick this capable send location form longitude and latitude with good when knob panic pressed fund capable detect hindrance with distance 0 until 40cm in every side stick . With respectively – respectively sensors distance have average error yes belong low where 2 , 12 % for sensors distance part front , 4.4% for sensors distance part right and sensors distance part left is 7.12%. Whereas for total success tool after tested as much 31 times is as big 74 % .

Keywords: Blind, GPS neo 6m, SIM8001, Ultrasonik Sensor.