ABSTRACT

Disabilities is a special needs or limitations that can be found on a person with physical problems which rendering the person unable to do some activities, such as sight-impaired, hearing-impaired, and speech-impaired. Sight-impaired disabilities, also known as blind, is a physical ability issue which makes a person unable to see. This issue usually forces the person to count on his/her instinct or memory to do activities which require eyesight. Based on that issue, this final project is focused on developing SMART CANE DIRECTION GUIDE, a GPS-based tool that uses two modules to provide information about position and wind direction of user's. Smart Cane Direction Guide uses Raspberry pi 2 as system control center, GPS U-blox neo 7M with compass to process the position and wind direction information, with keypad and earphone as output and powerbank 4000Mah as power source. The test result showed that U-blox 7m with compass module can be position and compass direction information of location

Keywords : Sight-impaired , SMART CANE DIRECTION GUIDE, GPS U-blox neo 7M *with compass, earphone*