

ABSTRACT

A blind person has limited in vision, because it is difficult for a visually impaired person to do mobility especially in Indonesia. Public transport system in Indonesia is still not well ordered different from the characteristics in other countries. Public transport can stop anywhere, and there is not yet a tool that can provide notification for the blind in the form of information on public transport. Therefore, a tool that can solve the problem is needed. "The General Transportation Detection and Notification Equipment for the Blind" is a system formed using radio frequency module that is APC220 controlled by microcontroller Arduino uno, this system is also supported by notification tool Such as LCD, Buzzer, WRF220 and assisted with a push button used for the selection process. After several tests, one of which is the range and time test, the Detection and Notification Tool is able to overcome the problem, with the farthest range of 60 meters, and with a response rate of less than 10 seconds.

Keywords: Blind, public transportation, APC220, data communication, Notification