

ABSTRACT

Blindness is a term for people who have impaired or damaged senses of vision. Losing the ability to see will put blind people at risk to carry out various activities, such as crossing the roads, because when the blind person want to cross the road, they sometimes need help from others to guide them in crossing. With that type of problem, therefore in this final project will be building a prototype crossing aids using voice recognition, this prototype can be used in areas with a fairly high noise level of 71db with a fairly low response time of 4 seconds, this prototype can also perfectly use with optimal range of 1 to 15 CM.. When this tool is used, it can control other electrical components related to traffic. This traffic control is used for blind people that wants to cross road safely and independently

Keywords : Voice Recognition, Blindness, Raspberry Pi