

ABSTRACT

Transportation tools become one of the important things to support all activities of the community. In this final project in focus to create a longboard control by using sound, which will be built is an Android voice control application. There are two important systems assembled on this final project, which are drive systems and controlling systems. The drive system is an assembly of several electronic components, mechanics and microcontrollers, namely DC Motors, ESC motor driver, motor mount, lithium polymer battery, Arduino, Bluetooth module, timing belt, timing pulley and one longboard unit. The controlling system is an Android application on a smartphone that communicates as a client through a Bluetooth connection.

Keywords: Longboard, Motor DC, Module Bluetooth, Arduino, Timingbelt