ABSTRACT

Currently, technological developments are growing rapidly. Technology has been widely applied in various fields, such as education, offices, business, industry, including households. In the household sector, technology can be used to help parents take care of babies. This final project makes a smart baby swing prototype as a technology solution for households. The smart baby rocker in this final project uses an Android application and several electronic devices, such as Arduino, sound sensor, bluetooth, and several motors servo. The sound sensor functions to detect the sound of a baby's crying, Arduino functions as a system programming center, bluetooth functions as a system communication module, and the Android application functions as a notification receiver sent by Arduino via bluetooth. The Android application in this final project has four buttons that can be selected by the user to run several motion modes available. The motion mode selected by the user will run several servo motors accompanied by a white noise song.

Keywords: Baby swing, sound sensor, Arduino, Android app, motor servo.