ABSTRACT

Sleep is very necessary for the development and growth of the baby because the developmental hormones actually become active when the baby is asleep. In general, babies need more sleep than adults. If an adult needs 7-8 hours a day to sleep, the baby needs 16.5 hours of sleep a day. But as the baby's age the hours of sleep are reduced too. Very often the baby wakes up when his mother is doing other household activities, and the mother is late to respond.

Thus, we need a tool that can help mothers to be able to replace them when cradling a baby. This final project makes a swing that can swing automatically. This tool will work automatically if the sound sensor detects the sound of a baby crying from the swing. This tool will also be integrated into the GSM system which will send some information about the state of the baby in a swing.

Based on the results of tests that have been carried out the reading of the condenser mic with an average sound value without crying baby is 720.5 mvolt, the average minimum value when the sound of crying baby is 679.5 mvolt and the average maximum value when the sound of baby crying is 760.3 mvolt. The DHT22 sensor has succeeded in reading the humidity of the room with the DHT22 sensor reading value is not much different from the value of the Hygrometer reading. The average sensor reading error is 0.58%. In the integration test under normal conditions, it has successfully experimented with and found no errors.

Keywords: Baby Swing, Automatic, Mic Condensor