

ABSTRACT

Control of electronic devices, doors, and windows today are mostly still manual and require humans to control it, so author have an idea to create a control system that works automatically without the need for human trouble in doing it.

Babies at the beginning of birth are vulnerable and should be monitored at all times. But it is contrary to the busy life of parents, especially housewives who have to do various activities at one time including watching the baby. Therefore, the application of monitoring can help the parents to monitoring the baby while doing other activities.

Based on tests have been made in this final project, parents can control the baby box to swing. To prevent parents forget to stop swing basket, this system arranged for can stop automatically at any given time.

Based on the survey spread, obtained a satisfaction score of 78.2%, which mean with this system makes parents easier to monitor their babies, which with this system the user only needs to use a smartphone to monitor and provide commands that will be forwarded to commands that will manage the tools at home.

From the test result of mechanics, motor servo used to swing baby box with the most weight is 9 Kg with a swing angle is 5 degrees. And from the result of Raspberry Pi's response time for execute command to swing the baby box is 473.9 ms.

Keywords: Raspberry Pi, System control, Baby Monitoring, Smartphone.