

ABSTRACT

The term angklung as a musical instrument made of bamboo and playing in a shaken way is also vibrated. Everyone can play angklung. In angklung play required a lot of players and special, so that the sound produced more harmony. However, not everyone can play angklung due to having limited skills, time and other limitations. On the other hand also the cultural influences that enter the society savings novelty. Slowly angklung musical instrument that began to be abandoned.

As for how to overcome it is made angklung automatic musical instrument control system at a certain distance, without playing it directly. The design system consists of designing applications and hardware hardware. The design of the application serves to control the angklung musical instrument using the feature by inputting the song to the microcontroller via bluetooth. While the design of hardware serves as a media output / output to move the instrument angklung.

Based on test results that have been done angklung robot can be controlled using android application and can produce a tone. The sound of the resulting tone corresponds to a song that has been inputted manually. Then the results of testing distance of ≥ 0 until 10 meters obtained average delay for 0.303 seconds. In the application functionality testing with the percentage of success is 100%. From the results of qualitative test questionnaires obtained average results 3.40 which means quite good.

Keywords : Angklung, Android, Mikontroler, Arduinio Uno And Bluetooth.