

CHAPTER 6

CONCLUSION

Based on the prototype trials that have been carried out, it can be seen that the success rate of the servo can move to the right is 71.8% and the success rate of the servo can move to the left is 80.96% because there are still several failed attempts. However, for the LED algorithm, it can be seen that the Fuzzy Sugeno algorithm can determine the speed and brightness of the LED from the data obtained by the LM35 sensor and Ultrasonic sensor properly because the success rate is 100%. Therefore using the Sugeno fuzzy algorithm is an effective way to create an automatic fan.

Then this automatic fan can also help save electricity because from the results of an experiment for 5 minutes, using an algorithm it only consumes 32,598 wattsxsecond. Meanwhile, those who do not use the algorithm spend 76,500 wattsxsecond.

