

CHAPTER 6

CONCLUSION

The following are the conclusions obtained from the results of research / testing tools using Ultrasonic sensors and Wemos D1 Mini :

1. The Wemos D1 mini microcontroller can be connected to WiFi so that it can send output in the form of sound, LED lights.
2. Ultrasonic sensor HC-SR04 can function properly, so it can detect any object obstacles.
3. Ultrasonic sensor HC-SR04 used in this study can detect obstacles with an angle of 0° to 15° no more.

In this research tool there are also several problems, the problems obtained include the following :

1. For tool design, there is a problem when you have to solder all the circuits together with the Wemos D1 Mini so that the Wemos D1 mini becomes hot and cannot function properly.
2. For power usage, the USB cable is still used so that the power supplied is more than 5 volts, this can cause the tool to become damaged or error quickly.
3. Installation of tools on PVC pipes is still simple due to the lack of adequate tools.

Suggestions for further research are to add a GPS module that works faster, add more than 1 Ultrasonic sensor, add a display to monitor the distance generated by the Ultrasonic sensor in applications that are used later and add a battery power of less than 5 volts.

