ABSTRACT

Unmanned aircraft or better known as drones, are one of the results of the very rapid technological developments in the current digital era, but the drones that are called on the market still use remote controls to measure them. In this research, drones are designed with an autonomous system using a wireless connection, where the drone can work without a remote control. The microcontroller used on the drone uses the Mcu ESP8266 node which includes a wifi module, to operate this system you need a personal hotspot from a cellphone or a wifi network connection by entering the SSID and password on the condingan. IP to open the client server can be seen on the serial monitor when wifi on the Mcu node is connected to the network. In the client server, there is motor speed input with 3 types of speed and there is data from the sensors used (Gyroscope and Ultrasonic), the sensor data will be updated in real time on the web server.

Keywords: Drone, Autonomous, Wireless, web server