

Abstract

Title : *Water Turbidity Level Measurement System and Automatic Feeding for Internet of Things (IOT)-Based Fish Farming*
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In the livestock industry, work is usually done manually or by using human labor. The delay in providing fish feed if left behind by the farmers for a long time, causes the growth and endurance of the fish to decrease so that the production is not satisfactory and the harvest becomes too late. In addition to delay in feeding, turbidity of water also affects the level of production. Turbidity is the content of organic and inorganic materials found in the waters so that it affects the life processes of organisms in these waters. Through this research developed a tool that is able to provide fish feed automatically so that it can help ease the work of fish farmers.

This tool is designed with acrylic as its main material and mini-system microcontroller circuit with ESP8266 module as a tool controller. This tool also uses a GE Turbidity sensor which serves to measure the level of turbidity in fish pond water and sensor Load Cell which functions to measure the load in a fish feed container.

Keywords: *Turbidity, Sensors, Tools.*