ABSTRACT

Fishery is one of the many farms conducted by Indonesian farmers. Whether in the form of a tube that is planted in the river or the sea, or pool. Cultivation of fish in the pond / aquarium requires appropriate measures and treatment of fish pond itself. The pond / aquarium owner must monitor the condition of the pool periodically, and giving the good food for fish. When the owner not in location and go for long periods, so the food feeding and pond / aquarium caring can be less controlled. Ensure the pond wasn't in the good condition is the part of caring the pond / aquarium. Pond / aquarium caring can be seen from state of pH sensor, temperature, water level, D.O. The sensor to be used is Sensor Level of Acidity (pH) is for keeping the water condition still neutral, Dissolved Oxygen Sensor (DO) for detecting availability of water oxygen, and water level sensor for detecting water level for avoid shrinkage of water volume due to weather or excess water volume because of high rainfall. The sensors can know the condition of the pool environment that will affect the fish feeding which is conducted automatically which is at once displayed to be monitored the latest conditions of pond / aquarium by the owner. This system will be built in stages starting from the mechanical design of the tool; Sensor configuration, microcontroller, and actuator; tool functionality test; Synchronization of monitoring displays with sensor sensing results and measuring devices. The final result of the prototype will be tested on a good, so it can be measured optimization of fish harvest.

Keywords: Automation,Feed , pH, Dissolved-Oxygen, water-level.