ABSTRACT

Technological advances are one of the important factors at this time, devices that can work automatically are needed by fish farmers. Currently, the scheduling and feeding of fish is still done manually. Therefore, a device was made to schedule and feed fish automatically.

This device aims to facilitate the work of manual fish farmers to become automatic, the benefits obtained from this device are so that the feeding process becomes more efficient in terms of time and effort. Using Arduino Uno as the main controller, and programmed using Arduino IDE. RTC DS3231 is required in order to configure Real Time Clock time and fish feed scheduling. Servo motor to open and close fish feed valve. The line proximity sensor is used to detect the presence or absence of fish feed in the fish feed container. LED (Light Emitting Diode) as a sign of fish feed has run out.

Based on the test results, this system can manage fish feed scheduling using the RTC DS3231, the servo motor can open and close the fish feed automatically and feed the fish according to the specified schedule and the line proximity sensor can detect whether the fish feed is depleted or not in the fish feed container.

Keywords: Automation, Feeding, Scheduling