

## ABSTRACT

*Feeding fish is one of the important things for fish farming. Currently, feeding in general still depends on manual human resources and can lead to overfeeding. Therefore, a fish feeder is designed that works automatically based on the feeding schedule and the feed dose. The provision of automatic fish feed uses hardware in the form of an Arduino Mega 2560 microcontroller which is the main controller, a load cell as a feed weight gauge, four servo motors as a place to open and close the feed placed in each hole in the feed storage container, a DC motor as a feed spreader propeller. and RTC as a real timer to make it easier for users to feed on a scheduled basis. The design of the load cell in the system is used so that the falling feed is based on the right amount and is not excessive.*

*Feeding according to the purpose of this tool. With a weight sensor accuracy value of 99.3%. The calibration of the four servo motors results in a range error value of 0.8-6.67%. And the maximum distance that can be reached when throwing feed is from 20.97 - 331.53 cm. Therefore, the feeding will be more regular and accurate to reduce the clean feeding.*

**Keywords:** *load cell, fish feed*