

ABSTRACT

Fish is one of the most popular foods consumed by the world community. Reporting from India Stuff, Indonesia ranks third as the largest fish producer with a total production of up to 6.10 million tons. This result has increased compared to the past few years. The high yield of fish production in Indonesia certainly cannot be separated from the area and also the diversity of aquatic animals in Indonesia. The process of sorting fish is our focus in conducting research to observe and study the process of selecting fish. From several documentation videos and references, we see that the process of sorting fish is still done manually by catching fish from the pond and then separating them based on size into containers. Farmers in Indonesia are also less educated about the technology-based fish sorting process, apart from the high price of fish sorters and the lack of information about fish sorting equipment. The design of the fish sorting device that will be discussed in this Final Project is intended for the process of sorting fish based on fish size using a laser and photoresistor sensor as a fish measuring instrument that is connected to Arduino Uno R3 and equipped with a DC motor as a drive for fish sorting doors and nets, and Servo Motor to regulate the release of fish feed periodically.

Keywords: Arduino Uno R3, Laser, DC Motor, Servo Motor, photoresistor sensor.