

## **ABSTRACT**

Lately, the Indonesian government seeks a way to make the national food security program successfully through marine and fisheries sector. Because of that, the government through the Department of Agriculture and Fisheries in each area began to intensify fish breeding activities and fishing. For fish breeding and farming activities, the problem of feed is the main thing because more than 80% of maintenance is spent to purchase feed. The reason is most of fish farmers, in feeding the fish always based on estimates and the own feeling, that there is the possibility of feeding excess which can lead to the spread of disease.

Therefore, it needs a system that is able to regulate the activities of feeding fish automatically using the Raspberry Pi as a control component and use a power bank which can rechargeable using solar panels.

In this final project created a system that can automatically control the activities feeding pellets on pond and inform the pelleted feed information to the user spending so that it can be monitored accurately. Raspberry Pi is used to control the device, server, and servo and DC motor drive. Raspberry Pi device associated with android smartphone wirelessly to the interaction with the user.

Keywords: pond, fish farming, dose, feed, server, raspberry pi, servo motors, dc motors.