

Skripsi  
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**ARDUINO BASED SALT FISH DRYING USING PID-FUZZY  
METHOD**

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**ABSTRACT**

Salted fish at this time many are still producing mainly on the islands. For drying in salted fish, there are still many who use it manually. The disadvantage of this manual method is that it cannot follow the incoming sunlight, so in the drying process, placement in salted fish cannot be perpendicular to the incoming sunlight.

To optimize the shortcomings of dried salted fish, the author will design a tool where this tool will orient the placement of salted fish in the direction of sunlight, so that the placement of salted fish is always perpendicular to the incoming light.

In this study using the PID-FUZZY method where FUZZY will be applied to two LDR (Light Dependent Resistor) sensors and for PID will be applied to a DC motor. Apart from that salted fish dryers use an Arduino Uno. Arduino uno that uses the ATmega 328 microcontroller serves as the workflow of the device to be designed. For input using two LDR sensors with output in the form of movement on a DC motor.

From the test results of salted fish dryer using the PID-FUZZY method obtained set points from the rotation of the motor which is always dealing with sunlight. From this test tested using a mobile flashlight by moving the flashlight left and right (East to West) slowly.

**Keywords:** Salted fish dryer, Salted fish, PID-FUZZY, LDR (*Light Dependent Resistor*), Arduino Uno, DC Motor.