

## *ABSTRACT*

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*Measurement system of chicken weight and temperature body based on arduino is a system that is intended for poultry farmers to do the sorting process on body weight and body temperature of chicken according to the criteria, the system is built with embedded weight sensor (load cell) in the bottom of the cage and a temperature sensor (infrared ) is placed at the back of the cage and the second servo motor which is mounted next to the cage to open and close the cage, if the chicken has met the criteria of weight and temperature of the servo motor that moves the door in pink will open the doors of pink, if chickens are not yet eligible weight body and the body temperature of the servo motor that drives the black door will open the door black. Load cell sensors in the system has an average value of 1.848 gram tolerance and infrared sensor in the system has an average value of 0.778 °C tolerance.*

*Keyword : Automation, Load cell sensor, infrared sensor, chicken, Arduino uno.*