

ABSTRACT

Culinary cuisines in the world is very various kinds. With many kinds of culinary dishes, way of processing also varied from cutting, softening, extortion, germentation, drying and cooking. Cooking is a culinary processing can be done in various techniques, such as boiling, frying or roasting. One type of roasting is Rotisseries. Rotisseries is a style of roasting where meat was stabbed in the toaster and then the meat is rolled until cooked through.

It required a roaster that can roast by creating automatic control system on the grills with temperature control for the level of maturity is more perfect. With the automatic, then the user does not need to set the time again for the roasting. This system uses ATmega16 microcontroller with implementing Fuzzy Logic and uses thermocouple sensor to control the gridiron. Thermocouple sensor is used to measure the room temperature grill. Data from the sensor will be sent to microcontroller. By using ATmega16 microcontroller, input data from the sensor is processed to control the valve regulator circuit block.

From the results of research and testing, systems that have been created have shown a decrease and an increase in room temperature oven. System is seen trying to keep the room temperature in accordance with a standard oven roasting. In general it can be concluded that by using this system improved accuracy meat has reached maturity with the maturity level of the meat reaches around 69°C-72°C

Keywords: Fuzzy Logic, Microcontroller, toaster