

## ABSTRACT

Successness of taking care the fish depend on a quality of water. Keeping water temperature constantly is necessary to be done. This water temperature can influence a growing fish. Extreme temperature changing can cause the fish become stress, loss of appetite, and they get low defend of disease.

In this last project has been realitated a device which is done to control a water temperature of aquarium. This tool can keep the water temperature of aquarium around temperature which is desired. This device uses LM 35 temperature sensor as a detector. Processing data is done by AVR ATmega 8535 microcontroller, and the result is displayed in LCD.

This tool can work with both the water flow, because water temperature can be evenly distributed throughout the aquarium. With the existing of this tool can be choosen the temperature range which is relevant for kinds of fishes taked care so that the fish do not stress due to extreme temperature changes.

Key word: *mikrokontroller AVR ATmega 8535, ADC ,heater, chiller, kisaran suhu*