

Project Description

Design a system that comprises of two ATmega 328P processors. One on the Arduino Board (A),

And the other independent processor running by itself on the bread board (B), (please note the clock speed with regard to this Microcontroller, if you are using internal clock or external clock.)

1. Use the Microcontroller (B) to monitor the ambient temperature using LM34/LM35.
2. The Microcontroller (B) will switch loads ON/OFF depending upon an establish threshold.
3. The Microcontroller (B) utilizing one of the many interrupts could also perform "a task of your choice", clearing define your choice.
4. The Arduino Microcontroller (A), would serially report the temperature in degrees F/ in degrees C.
5. The Arduino Microcontroller (A), utilizing one of the many interrupts could also perform "a task of your choice", clearing define your choice (Make sure it is not the same interrupt as utilized in item 3 above.

Note: Code has to be structured commented and utilize the pointers for inter functional communications.

Enjoy the Embedded System Design Mastery.