

Final project

FIRE ALARM SYSTEM

ARCHITETURE

The alarm system consists of two microcontrollers ATMEGA32 which communicate with each other using SPI protocol

the first micro controller(slave) is located in a room where it controls doors represented by servo motor and water sprinkler represented as DC motor and the micro controller reads the temperature value from sensor . the second micro controller (master) in the control room which controls a buzzer alarm through phone using UART protocol which the user enters '1' to activate buzzer

There is a lcd for each micro controller which display status

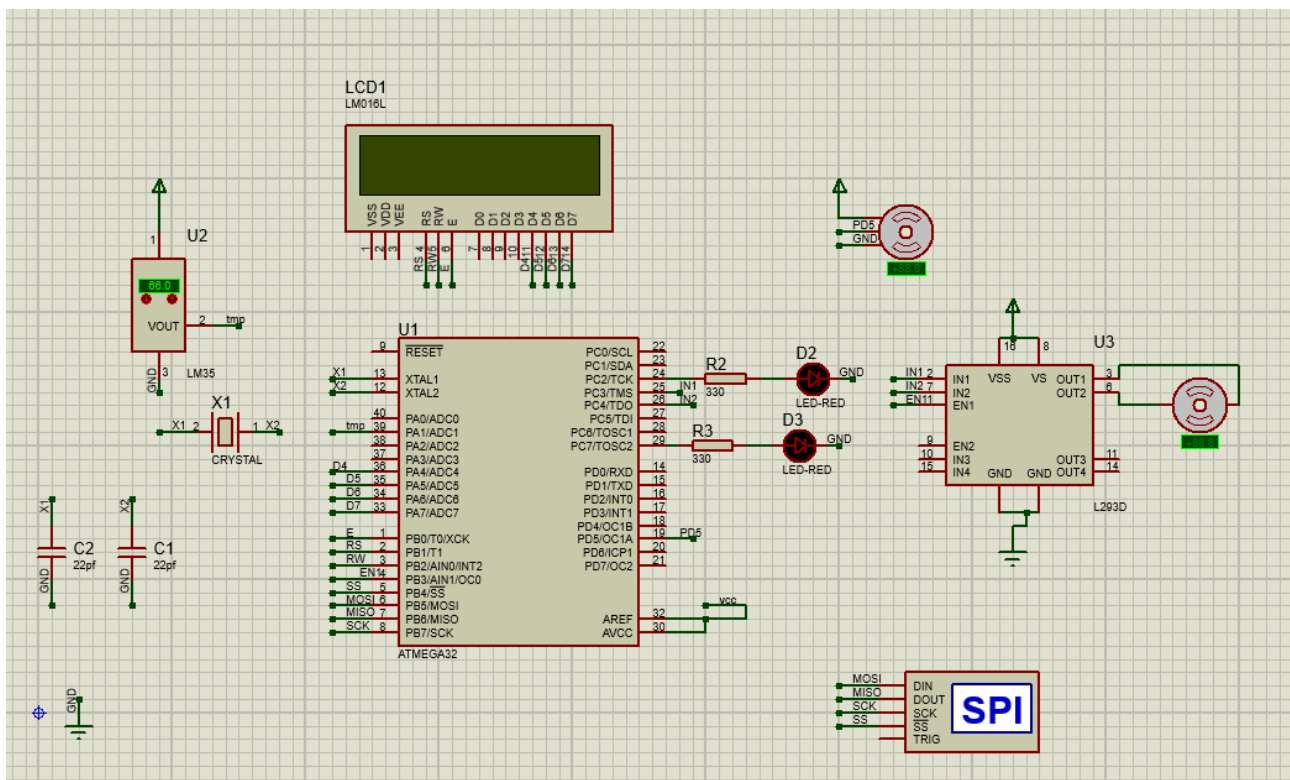


Figure 1: slave schematic

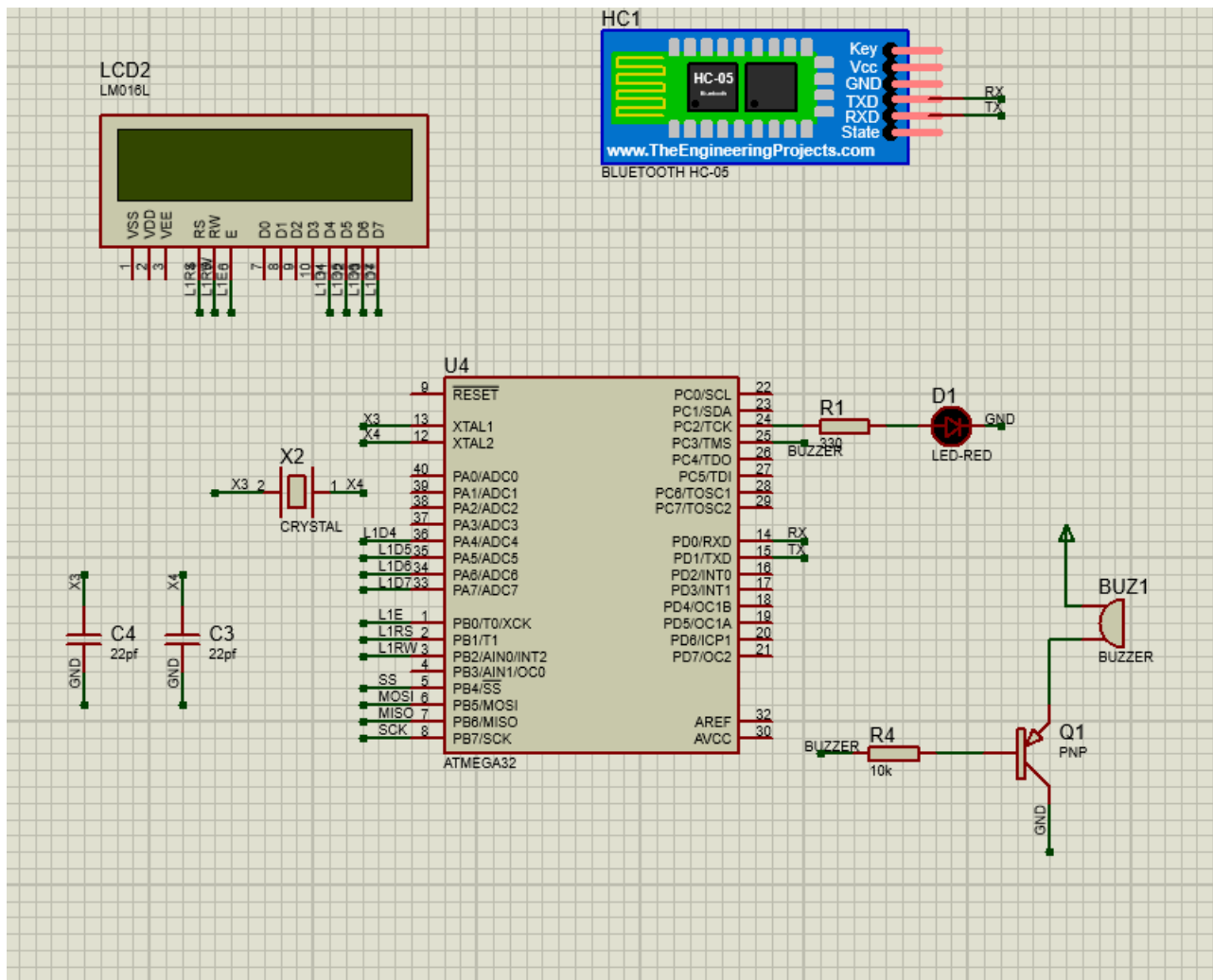


Figure 2:master schematic