

## Final Project

### HTI-Smart House!



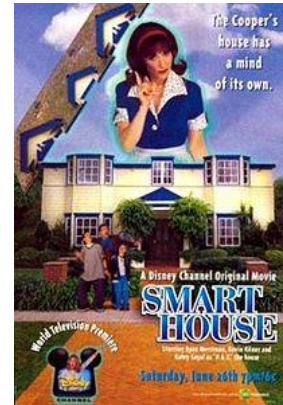
#### The problem Definition

In today's world we use a lot of technologies and it became so difficult to control all of it so we need to insert the new technologies to control it .

- ✚ The Smart house is a Controlled house Which There is a Microcontroller System control all devices with each other which you can on and off the lights , Shades , TV and Fans etc.

The idea showed for the first time in a movie called Smart House

*Smart House* is a 1999 [Disney Channel Original Movie](#) (DCOM) about a teenage computer whiz ([Ryan Merriman](#)), his widowed father, and his little sister, who win a [computerized house](#) that begins to [take on a life of its own](#) – the life of an overbearing mother ([Katey Sagal](#)).



Now The Smart houses grew and included a lot of technologies

- ✚ On and OFF all Light at the Same time.
- ✚ On and OFF any Single Lamb .
- ✚ OFF and ON the LCD as a functional for TV.
- ✚ Control the Motor to the left or the Right as a functional to the Air Condition as a Hot or Cold Air or Shades using a Motor.

❖ The App can Control the following things like

- Water taps.
- Camera.
- Audio.
- Shades.

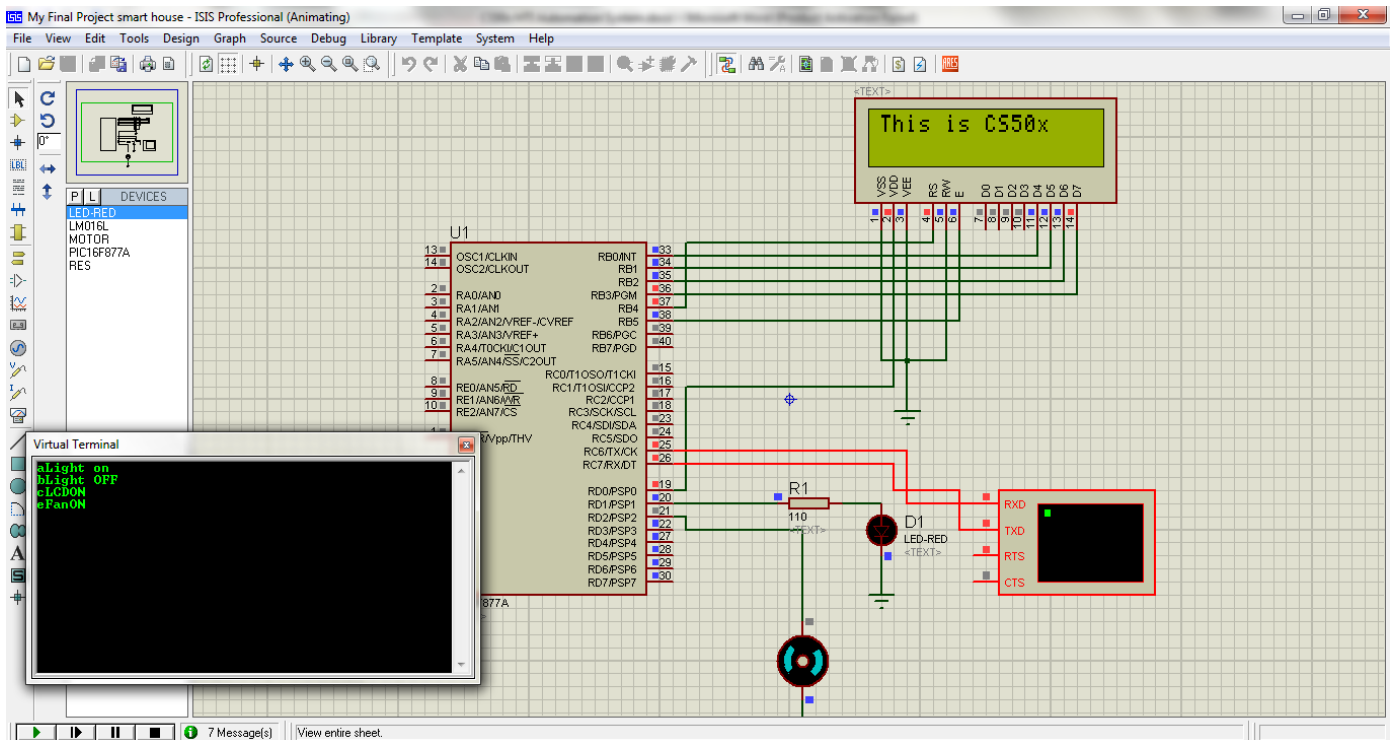


In My Application it include how to control light, Fan and a TV on and off.

I used a

- ✚ LED
- ✚ DC
- ✚ Motor
- ✚ LCD

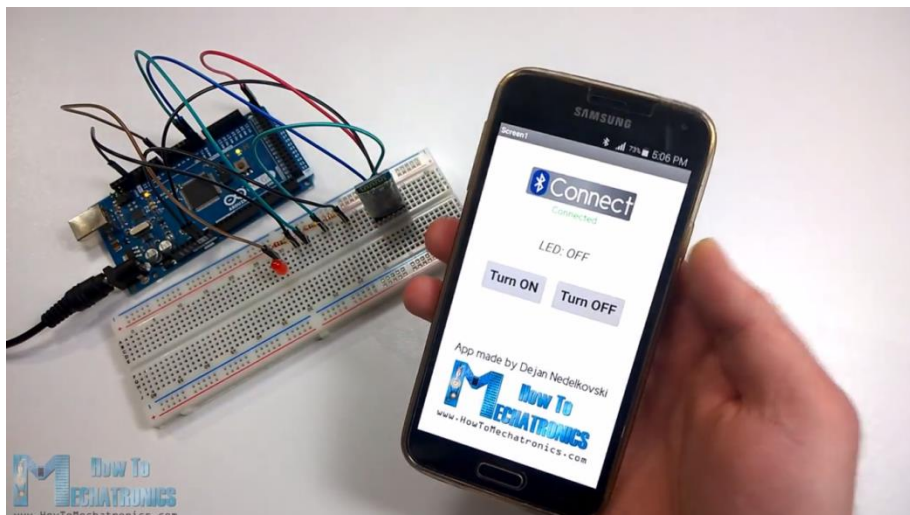
And the other peripherals like Pic which are the microcomputer and the test board.



In my design here I have a pic16f877 a microcontroller which I will use to control my project .

Also I have a Bluetooth terminal.

I Will use here a mobile App to Click on and off to control my devices.



In my C code I Program the Bluetooth I program the micro controller to receive a message as a text one character from the android app and depend on this character I will control my Devices as ON or OFF.

This is My C code