Intelligent Automatic Podium Light Controller

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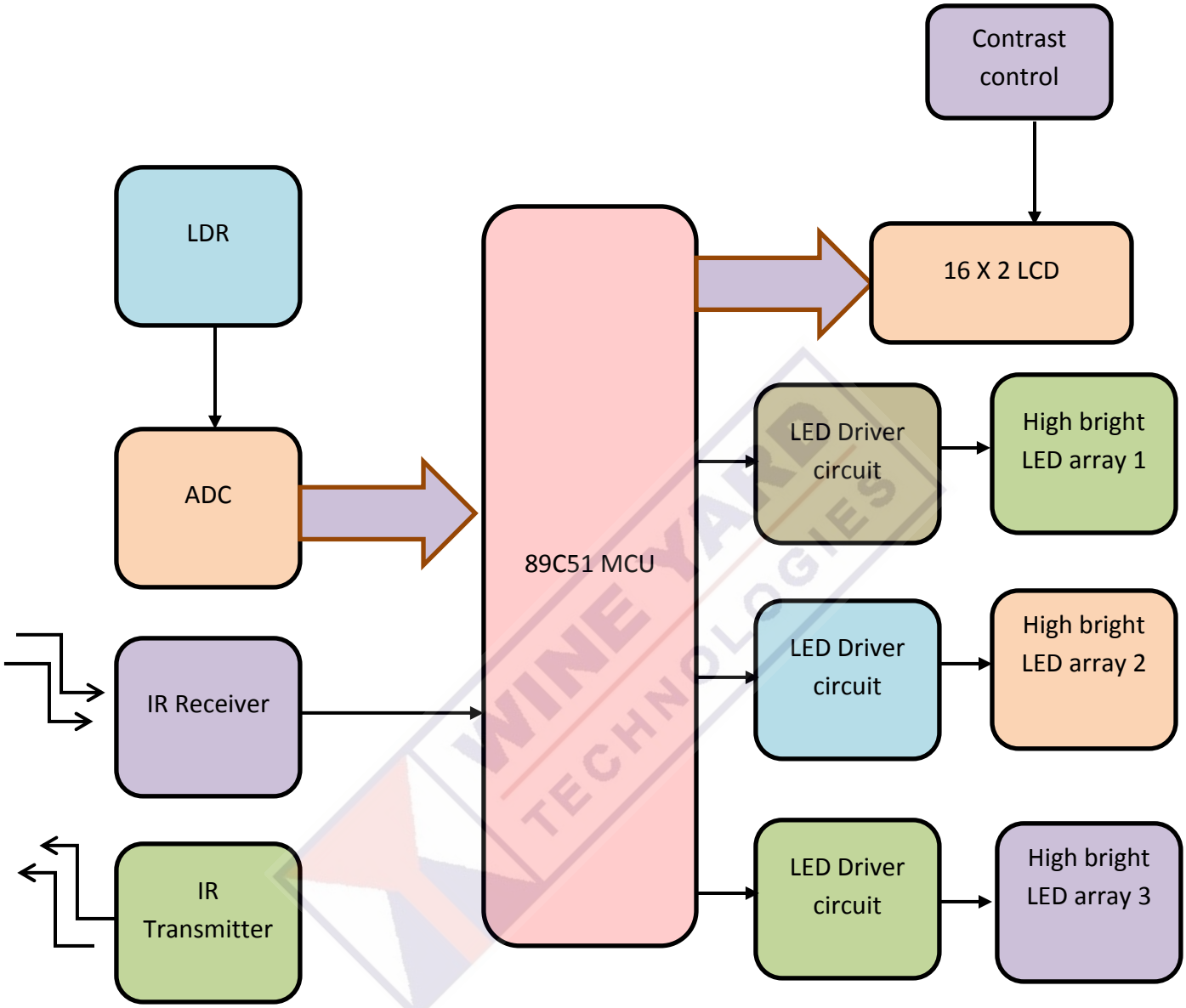
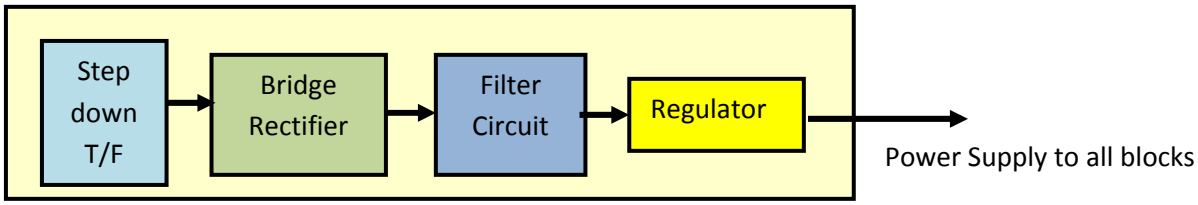
Intelligent automatic podium light controller is an innovative idea. In this project, three level power saving LED array light is used. An IR transmitter – receiver unit is used to detect the presence of the speaker / any other person. If a person comes nearer to the podium to speak, immediately the IR sensor senses the presence of the person, and immediately it sends a signal to the MCU. An LDR is interfaced to the microcontroller through ADC. It senses the lighting condition of the surroundings of the podium, and according to that the controller switches on the LED light array. Three arrays will be switched on in dim lighting condition. Only one or two LED light arrays will be switched on in bright condition.

An NPN transistor is used to drive the LED array. This transistor is configured in common emitter configuration. 16 X 2 LCD is used to display the status of lighting condition and status of LED light array. A preset is connected to control the contrast of the display.

This project uses regulated 5V, 750mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac out put of secondary of 230/18V step down transformer.





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