

## Abstract Details

**Title:** Rolling Display using LCD

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**Abstract:** The paper is mainly aimed to display a message or a text and roll it using liquid crystal display LCD, the rolling display can be used for advertising or for providing information to various places like schools, colleges, government offices, shops, hospitals, railway stations and etc. The rolling display is prepared using 20x2 LCD to display a certain message or a text. A 4x4 keypad is been used to help in some functions like changing the message rolling direction, or to select a certain message sending it from a PC through RS232 to be displayed, an AVR- 8535 Microcontroller belonging to the microchip microcontrollers family has been used for this purpose.

**Keywords:** Microcontroller (AVR-8535), 20\*2 LCD, Keypad, PCB Board, RS232 Connecters.