

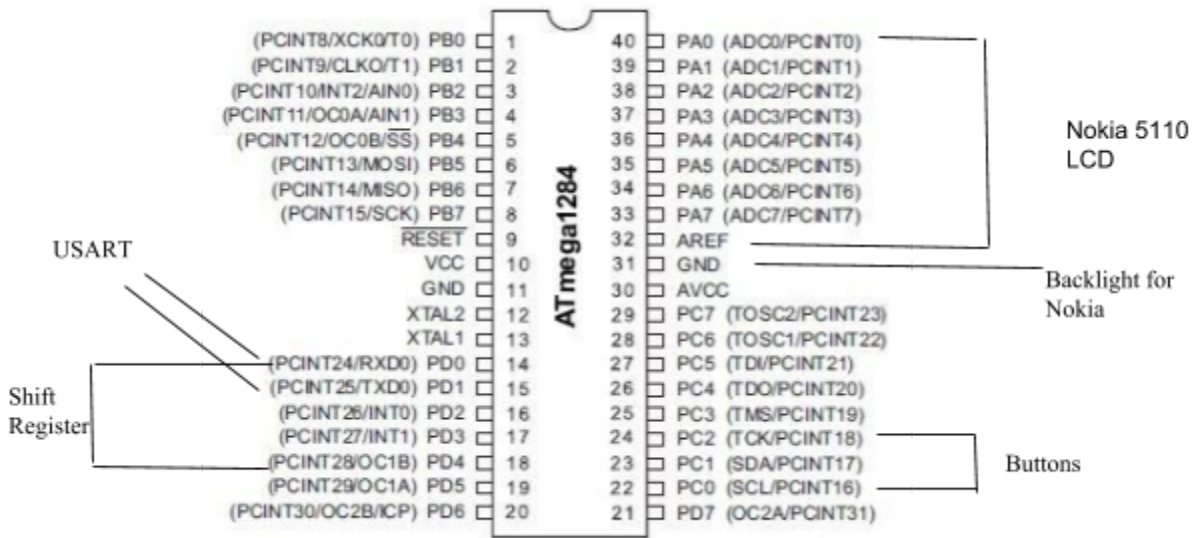
CS/EE 120B
Custom Project:
Billboard: Advisements, Logos, and Gifs
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Introduction

Billboards advertisements have been around for decades. One might see a Billboard advertisement in popular attractions. Money is involve in creating an advertisement to be display in the billboard. Sometimes advertisement billboard can be a logo or GIF. A logo can range from superhero movie logo to televisions show's logo. A GIF is multiple images

In my custom project, I design a billboard that displays advertisements, logos , and Gifs. Depending which button is press , the buttons controls the animations of the advertisement , logo, or GIF. Sixteen LEDS connected to two shift register lights a light sequence corresponding to each buttons.





Components (Pin-out)

● Inputs

- Buttons to control the advertisement/Logos/Gifs

● Outputs

- Nokia 5110 LCD screen. This will be used to display the advertisement/Logos/Gifs
- Two Shift registers to light a 16 LEDs

Complexities/Build-upons

1. Shift register to generate a light sequence for the advertisements, logos, and Gifs.
2. Using a second microcontroller (USART) to generate a light sequence for the default state
3. Using a Nokia 5110 LCD to display a bitmap images to the screen.