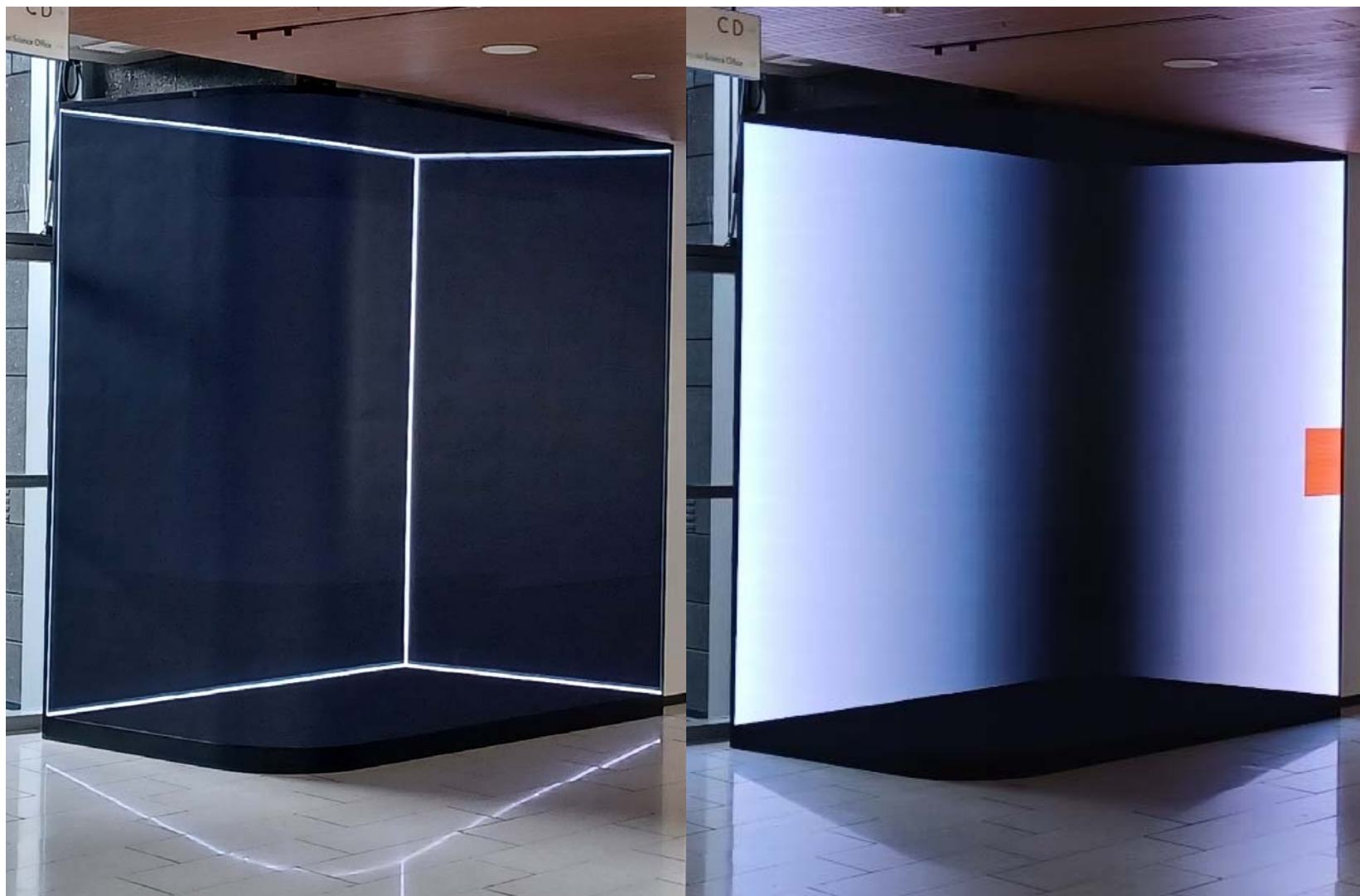


Project: 3D Billboard

Project Schedule







Project Schedule

- Task 1: (Deadline 18 April)
- Think about ideas and search for some references for this project.
- Explain your high-level idea on one page of A4 paper (provide some references if possible).
- I will explain my idea to you on 18 April.

Task 2: (Deadline 5 May)

- Write a program to show the blue rectangle on the L-shaped screen.
- Simple version: consider the L-shaped screen without rounded corner, i.e., just a rectangular box.
- Better version: also consider the rounded corner on the surface.



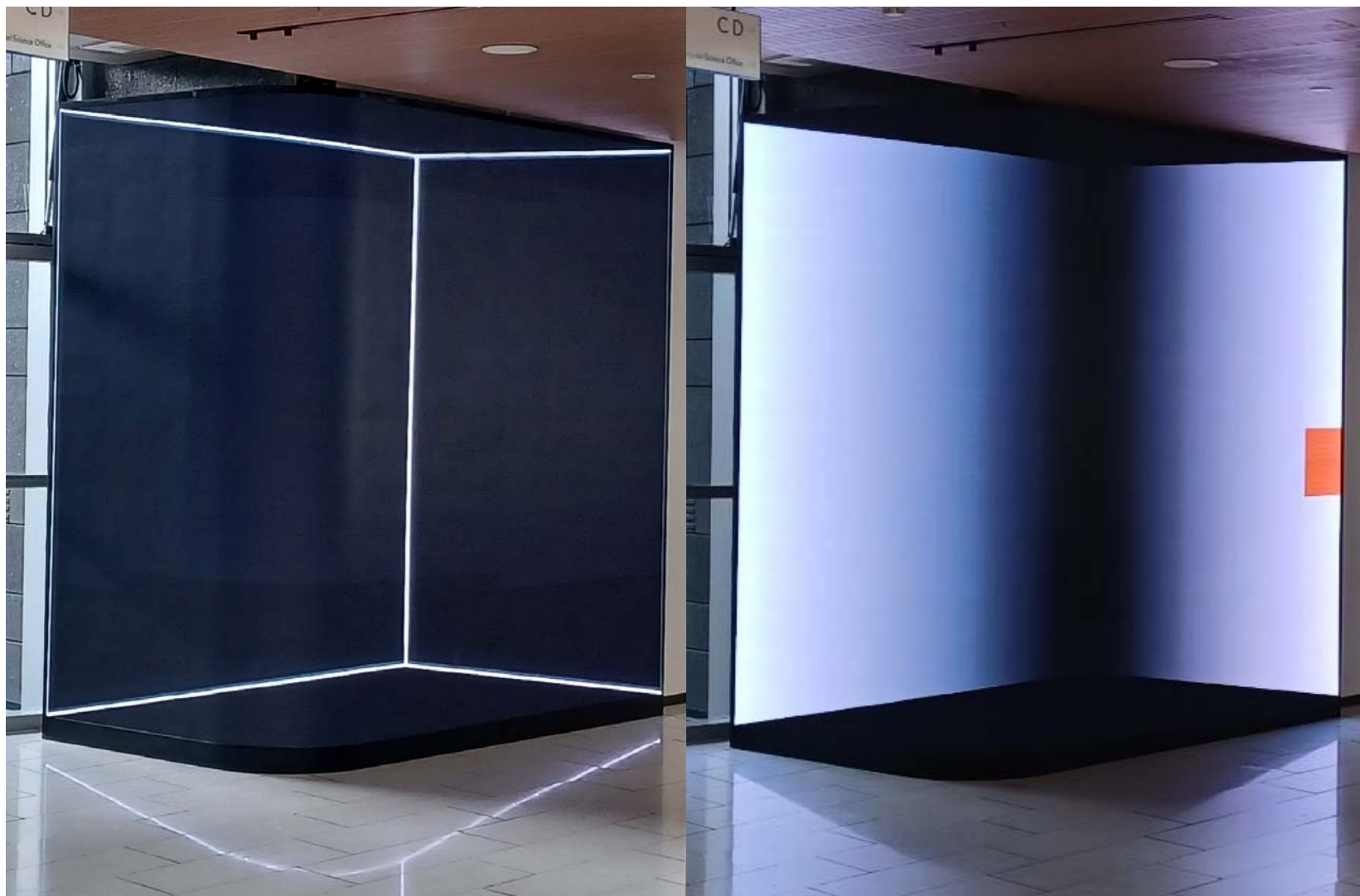
Task 3: (Deadline 16 May)

- Write a program to convert an image into a flat image on the L-shaped screen.
- Simple version: consider the L-shaped screen without rounded corner, i.e., just a rectangular box.
- Better version: also consider the rounded corner on the surface.



Task 4 (optional - bonus): (Deadline 25 May)

- Write a program to show a movie, gif, box, 3D object on the L-shaped screen like what we see in the normal flat screen.
- Simple version: consider the L-shaped screen without rounded corner, i.e., just a rectangular box.
- Better version: also consider the rounded corner on the surface.



Basic command in Matlab/Octave for the project

- `img = imread("filename.jpg");` %img is a matrix, height x width x 3
- `imshow(img);`
- `img_gray = rgb2gray(img);` %convert rgb image to grayscale
- `img(4,5,1) = 100;`
- `img(4,5,:) = [200 100 50];`
- `img(4:10, 50:100, :) = ...`
- `img2 = zeros(200, 300, 3);`
- `img2(14:20, 100:150, :) = img(4:10, 50:100, :);`
- `imwrite(img2, "new_name.jpg");`