Name (netid): Your Name (Your Netid)
CS 445 - Project 5: Image Based Lighting

Complete the claimed points and sections below.

Total Points Claimed **[ ] / 250**

Core

1.	Stitch two key frames	[ ] / 20
2.	Panorama using five key frames	[ ] / 15
3.	Map the video to the reference plane	[ ] / 15
4.	Create background panorama	[ ] / 15
5.	Create background movie	[ ] / 10
6.	Create foreground movie	[ ] / 15
7.	Quality of results and report	[ ] / 10

B&W

8.	Insert unexpected object	[ ] / 15
9.	Process your own video	[ ] / 20
10.	Smooth blending	[ ] / 30
11.	Improved fg/bg videos	[ ] / 40
12.	Generate a wide video	[ ] / 10
13.	Remove camera shake	[ ] / 20
14.	Make streets more crowded	[ ] / 15

1. Stitch two key frames

Include

- Display of image frames 270 and 450 with the red plot lines showing corresponding regions
- Printout of 3x3 homography matrix normalized so that the largest value is 1

2. Panorama using five key frames

Include your panoramic image

3. Map the video to the reference plane

Include:

- Link to your video
- Display frame 200 of your video
- Briefly explain how you solved for the transformation between each frame and the reference frame

4. Create the background panorama

Include:

- Picture of the background panorama
- Explain your method of computing the background color of a pixel

5. Create the background movie

Include:

- Link to your video
- Display frame 200 of your video

6. Create the foreground movie

Include:

- Link to your video
- Display frame 200 of your video

7. Quality of results / report

Nothing extra to include (scoring: 0=poor 5=average 10=great).

8. Insert unexpected object

Include link to your video.

9. Process your own video

Include:

- Background image
- Link to background video
- Link to foreground video

10. Smooth blending

Include panoramic image from part 2 with better blending

11. Smooth blending

Include panoramic image from part 2 with better blending

12. Generate a wide video

Include link to your video

13. Remove camera shake

Include link to your stabilized video

14. Make street more crowded

Include link to your video

Acknowledgments / Attribution

List any sources for code or images from outside sources