**Name (netid):** Your Name (Your Netid)

**CS 445 - Project 1: Hybrid Images**

Complete the claimed points and sections below.

**Total Points Claimed [ ] / 130**

1. Hybrid image main result
   1. Main result and description [ ] / 45
   2. FFT images of main result [ ] / 15
2. Hybrid images: two additional results [ ] / 10
3. Image enhancement tasks (3rd is B&W)
   1. Contrast enhancement [ ] / 10
   2. Color enhancement [ ] / 10
   3. Color shift [ ] / 10
4. Quality of results / report [ ] / 10
5. Color Hybrid Image w/ explanation (B&W) [ ] / 5
6. Gaussian / Laplacian Pyramids (B&W) [ ] / 15

**1. Hybrid image main result**

Include

* Original and filtered input images
* Hybrid image result
* FFT images of each original and filtered image and the hybrid image
* Description in a few sentences of how it works using the included images as illustrations. Explain parameter settings and any clever ideas that are incorporated.
* All results must be based on your own images (can be from web with attribution, but not provided samples)

**2. Hybrid image additional results**

Include

* At least two additional results (may not use provided samples). For each, include the input and hybrid image (do not need to show filtered or FFT images)

**3. Image enhancement tasks (2 required, 3 for B&W)**

Include

* For at least two out of three enhancement tasks (each is worth 10 points), display original image, modified image, and explanation of how the image was modified

**4. Quality of results and report**

Nothing extra to include.

**5. Color hybrid result (B&W)**

Include

* Original images, hybrid image
* Explanation of method: Is it better to use color for the low-pass, the high-pass, or both?

**6. Gaussian and Laplacian Pyramids (B&W)**

Include

* Gaussian pyramid of main hybrid image result (can be one row of images)
* Laplacian pyramid of main hybrid image result (another row of images)

**Acknowledgments / Attribution**

List any sources for code or images from outside sources

<https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_imgproc/py_histograms/py_histogram_equalization/py_histogram_equalization.html>

<https://stackoverflow.com/questions/31998428/opencv-python-equalizehist-colored-image>

www.google.com