**Vision Based Automation**

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**LAB 2: Histogram equalization based image normalization.**

# -\*- coding: utf-8 -\*-

"""

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"""

import numpy as np

import cv2

from matplotlib import pyplot as plt

img = cv2.imread('purple.jpg',0)

equ = cv2.equalizeHist(img)

res = np.hstack((img,equ))

cv2.imshow('image',res)

#cv2.imshow('Original',img)

cv2.waitKey(0)

cv2.destroyAllWindows()

histr = cv2.calcHist([img],[0],None,[256],[0,256])

plt.plot(histr)

plt.show()

histr1 = cv2.calcHist([equ],[0],None,[256],[0,256])

plt.plot(histr1)

plt.show()



