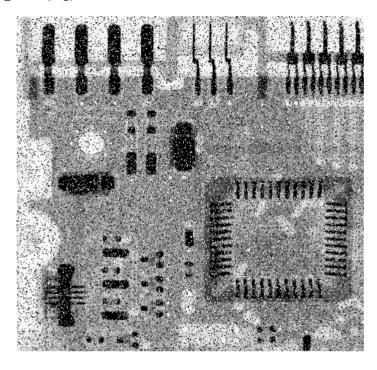
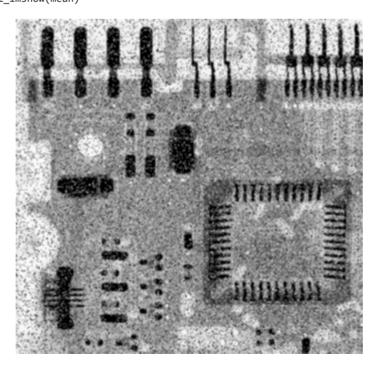
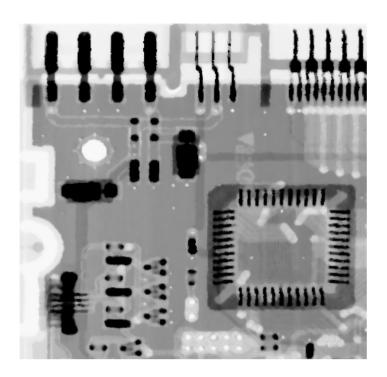
import cv2
from skimage import io, img\_as\_float
from skimage.filters import gaussian
from google.colab.patches import cv2\_imshow # for image display
img = cv2.imread("/content/drive/My Drive/colab/noisysalterpepper.png", 0)
cv2\_imshow(img)

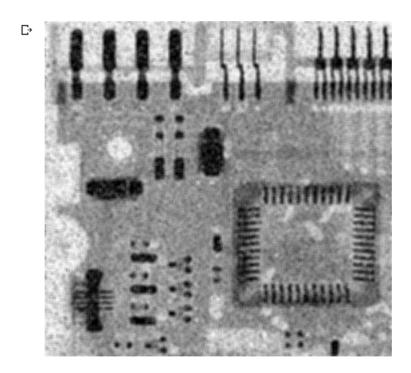


ksize = (3, 3)
# Using cv2.blur() method
mean = cv2.blur(img, ksize)
cv2\_imshow(mean)

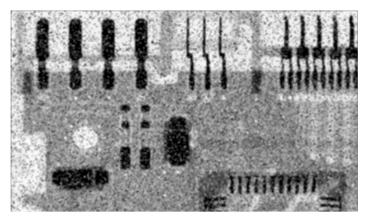


median = cv2.medianBlur(img,5)
cv2\_imshow(median)





gaussian\_using\_cv2 = cv2.GaussianBlur(img, (3,3), 10, borderType=cv2.BORDER\_CONSTANT)
cv2\_imshow(gaussian\_using\_cv2)



gauss = cv2.GaussianBlur(img, (3,3), 10)
# Apply Unsharp masking
unsharp\_image = cv2.addWeighted(img, 2, gauss, -1, 0)
cv2\_imshow(unsharp\_image)

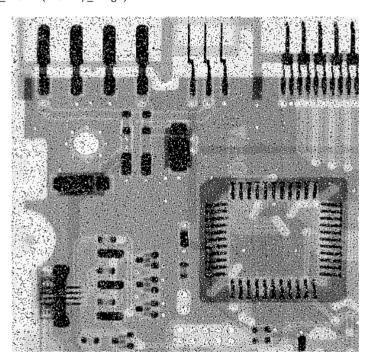
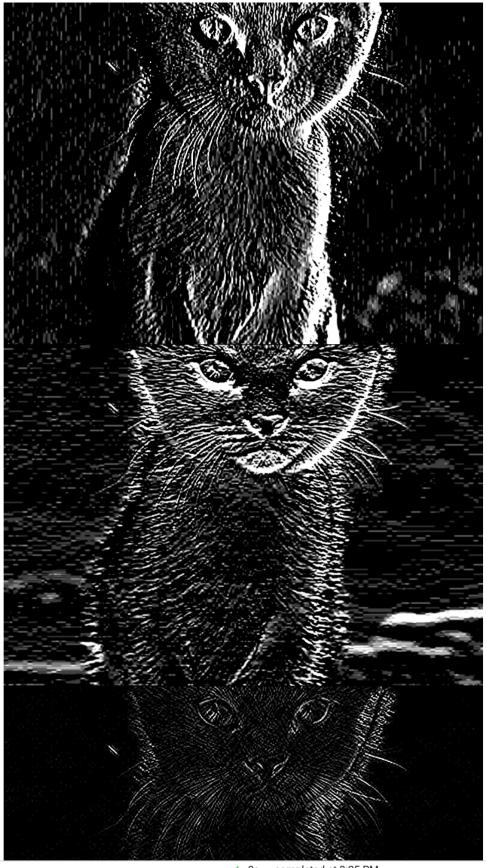


image = cv2.imread("/content/drive/My Drive/colab/cat.jpeg", 0)
sobelx = cv2.Sobel(src=image, ddepth=cv2.CV\_64F, dx=1, dy=0, ksize=5) # Sobel Edge Detection on the X axis
sobely = cv2.Sobel(src=image, ddepth=cv2.CV\_64F, dx=0, dy=1, ksize=5) # Sobel Edge Detection on the Y axis
sobelxy = cv2.Sobel(src=image, ddepth=cv2.CV\_64F, dx=1, dy=1, ksize=5) # Combined X and Y Sobel Edge Detection
# Display Sobel Edge Detection Images
cv2\_imshow(sobelx)
cv2\_imshow(sobely)
cv2\_imshow(sobelxy)



✓ 0s completed at 3:25 PM