Note: I am Using Scipy v1.1.0. In case of any errors you can install scipy 1.1.0 by the following command: pip install scipy==1.1.0

```
In [19]: import scipy scipy.__version__
```

Out[19]: '1.1.0'

To download images Click on this url: <a href="https://drive.google.com/drive/folders/1pcaTwofZGfoCxZ3Hv2X6vW6xf\_1i88eb?usp=sharing">https://drive.google.com/drive/folders/1pcaTwofZGfoCxZ3Hv2X6vW6xf\_1i88eb?usp=sharing</a>)

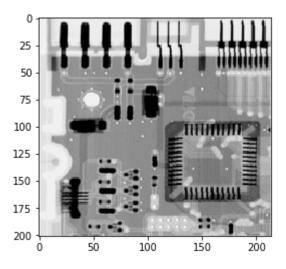
(https://drive.google.com/drive/folders/1pcaTwofZGfoCxZ3Hv2X6vW6xf\_1i88eb?usp=sharing)

```
In [20]: import numpy as np
    import matplotlib.pyplot as plt
    from scipy.misc import imread
    import math
    from skimage.util import random_noise
    from skimage.filters import rank
    from scipy import ndimage
```

## Original Image ¶

```
In [22]: plt.imshow(original_image,plt.cm.gray)
```

Out[22]: <matplotlib.image.AxesImage at 0x1994af6a508>



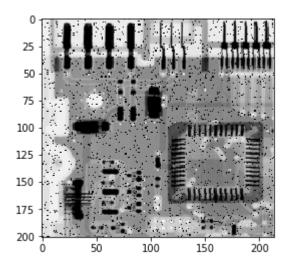
```
In [23]: processed_image=original_image.copy()
```

## **Adding Pepper Noise**

```
In [31]: noise_img = random_noise(processed_image, mode='pepper')
noise_image=noise_img*255
```

In [32]: plt.imshow(noise\_image,plt.cm.gray)

Out[32]: <matplotlib.image.AxesImage at 0x1994a6824c8>



In [33]: hist=plt.hist(noise\_image.flatten(),bins=256,range=[0,255])

