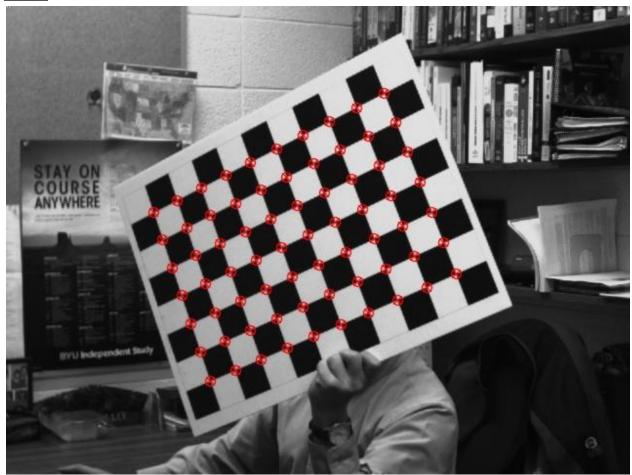
Homework 2 - Robotic Vision

<u>Task 1</u>



Task 2

focal_length: 8.47721355704985

camera_matrix:

[1145.56940 , 0 , 328.010352] [0 , 1143.95445 , 222.319918] [0 , 0 , 1]]

distortion_coeficients:

[[-0.256821803],

[0.0150545624],

[-0.00134300310],

[-0.00143102803],

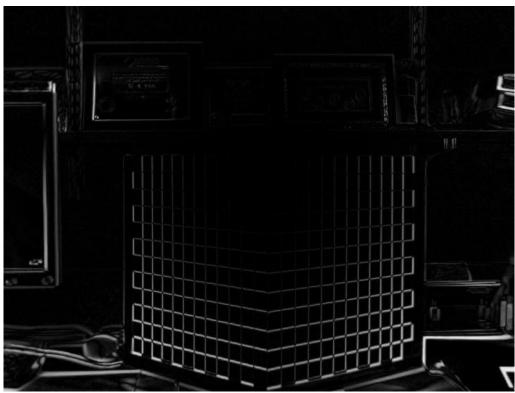
[2.07373830]]

Task 3

Far



Close



Turned



Task 4

```
rotation_matrix:
```

[[0.73598716 , -0.6768695 , 0.01306069] [-0.00334949 , -0.02293259 , -0.9997314] [0.67698721 , 0.73574573 , -0.01914526]]

translation_vector:

[[0.0137643708] [10.4811752] [46.6994746]]

Task 5

Camera_matrix:

[[633.97147281, 0 , 299.78648754] [0 , 605.74823584, 244.72825428] [0 , 0 , 1]]

Distortion_coeficients:

[[-0.235387], [0.98882855], [0.00175999], [-0.00357608], [-1.5317255]]

Task 6

