

BMEN E4984: Biomedical Imaging Project Report Guide Lines

Note: 10-page limit on this assignment (excluding appendix and extra-credit)

Introduction (10 points):

- Briefly summarize the method you are implementing, describing each step of the algorithm. *(1 page maximum)*

Methods (20 points):

- Explanation of the Major Portions of the Code (i.e. Back Projection Implementation, and Filter Design). *(1 page maximum)*

Analysis (65 points):

- Discuss the effect of the following:
 - Number of Projections Used
 - Image Size
 - Different Interpolation Schemes
 - Filter Types
 - Noise Tolerance
 - Resolution Limits
- Be sure to mention Efficiency and Accuracy (Mean Squared Error).
- Compare the results of your Code to those of matlab's *iradon* function.

Appendix (5 points):

- Please attach your documented code to the back of your project.

Extra Credit (20 points):

- Implement another method of your choice and repeat the above procedure.