EEL 6537: Class Project 2 **Due 4/22/08**

1. Instruction:
You should do an individual project by yourself. You can continue along the lines for the first project, but obvious efforts should be demonstrated for the second project.

2. Reports:
The second class project report is due on April 22, 2008. You can either send me a hard copy or email me the pdf file. Your report should include the following components:

a. A concise description of the problem or application.

b. A summary of previous solutions to the problem. Your report should have at least a few references to papers in the literature that you have read to help you implement your project.

c. A detailed description of your solution to the problem.

d. Spectral estimation results.

e. Discussion and analysis of your results and how your solution differs from previous work. Please include numerical examples to validate your theoretical analysis.

f. Ideas for how your project could be extended or improved if you had more time.

g. You may include the codes you wrote in the appendices.

3. Focus:
Nonparametric spectral estimation methods, parameter estimation fundamentals, array beamforming techniques, parametric methods. I prefer that you focus on parametric methods.