OBJECTIVE
To become familiar with the hardware and software structure of the TMS320C6701 Evaluation Module (67EVM) board from Texas Instruments. The software support is a Code Composer Studio (CCS). This is to help you write your code, compile, debug and optimize your code. To enhance the theoretical understanding of DSP theory learned in class through simulation using MATLAB®, DSPWorks, QEDesign, and real-time DSP processing of the algorithms using the 67XEVM.

OUTLINE (Tentative)
1. Laboratory One: Moving Average Filter
2. Laboratory Two: Introduction to the TMS320C6701EVM and CCS software
3. Laboratory Three: The sampling Process In the Time-Domain
4. Laboratory Four: Audio Signal Sampling Program on the 67XEVM
5. Laboratory Five: LP FIR Filter Design and Implementation (SW/HW)
6. Laboratory Six: HP FIR Filter Design and Implementation (SW/HW)
7. Laboratory Seven: BP IIR Filter Design and Implementation (SW/HW)
8. Laboratory Eight: BS IIR Filter Design and Implementation (SW/HW)
9. Laboratory Nine: Project- due date on ….

GRADING
The laboratory is 15% of the total course grade.

REPORT
The report should have the following sections in addition to any other specific instructions given per laboratory procedure:
1. Title of Experiment and Due date
2. Introduction
3. Objective of the Experiment
4. Results of Procedure
5. Questions Answered (answer any questions including any prelab)
6. Conclusion and Analysis (analyze the results and your answers to the questions)
7. Comments (what have you learned from the laboratory and any feedback you would like to give)

REFERENCES

NOTES
• Reports are due on the date indicated on the assignment sheet in the classroom.
• Students, in teams of two, can work together to do the experiment and should submit one report.
• No late laboratory report will be accepted unless authorized by the instructor.
• Reports are expected to be your own work and any copying will be punished by the university rules.
• Students are to work in teams of twos. Make sure you put the names of the team members on the report.
• You are to read the experiment procedure before going to the lab.