Lab Assignment
CMPE 245
HL

1. Finish the embedded system board and RF board prototyping. Be sure to have RJ45 connector and CAT5 cable to link the embedded system prototype board to the RF board.
(1) In this lab, you will send the following message: “SJSU_CMPE245_YourName_ID(last_4_digits)”.
(2) Implement LISA and Scrambling/Descrambling algorithm when doing the communications.

Note: To prepare your lab demo, conduct land line testing before RF communication. Make sure your land line communication works correctly.

2. Implement LISA and Scrambling/Descrambling Algorithm on embedded board LPC1769 with the following requirements:
(1) LISA program implmentation should be flexible and capable of handling different confidence levels, from matching 1 byte up to full 32 bytes of the LISA Sync field.
(2) LISA program will have to prompt user for console input to allow the selection of different confident level.

3. Demo requirements:
(1) Team of 4 members will do the demo as team. However, each member will have to have his/her board ready, and programs for each member has to be individually written, and can not be shared.
(2) Be prepared for doing your board demo individually when asked in the demo session, and on average, each team member will get the chance to do demo on his/her board throughout the semester.

4. Lab report requirements. You will need to submit on-going work of the lab report for this demo, however one comprehensive lab report due at the end of the semester which integrates each of every lab demos throughout the semester. And the lab report has to be submitted as an individual report, no material from the other team member can be shared, these include no figure, no circuits, drawing, source code. All the lab report material will have to be written and created independently.

(END)