

ENEE 408D
Spring 2003
Project Assignments

Project Assignment: Design of Mixed Signal Integrated Circuits

Establish groups of four students.

Choose the integrated circuits (IC) you want to design. The project should be mixed signal, in the sense it contains both digital and analog elements. Suggested projects have been given in class.

The IC design project should contain the following elements:

- -Block Diagram
- - Schematic and analytical (pencil and paper) calculations of the circuit operation
- -SPICE simulation of the circuit
- -LASI layout
- -3 ft X 2 ft Poster illustrating key parts of project. (Short description, block diagram, schematic, and layout)
- -Written and oral reports describing circuit, layout and results, and a poster presentation.

Project Schedule Due Dates:

1. 4/3: One paragraph project description and team members
2. 4/8: Block diagram of circuit
3. 4/22 Schematic, and analytical equations describing circuit, and analytical results.
4. 5/1: SPICE analysis and results.
5. 5/8: LASI layout, including padframe.
6. 5/14 Poster Due
7. 5/21: Conference presentations and written report. Conference will have two sessions: AM and PM. You are required to attend one full session.