



Final Project



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- This is the 'project' in 'project lab'.
- It is YOUR design.
- Work in teams of two or three persons.
 - Help each other design and debug.
- Staff will support and help as much as possible.
 - Start now!
 - Most work is done after lab3 (and other work) is completed.
 - TA to student mapping is not by recitation but is determined by project team as per your abstracts.
- Demonstrations last week of the term.
- Add 6.905 by DROP date.
 - This makes 6.111 an 18 Unit subject.
 - Projects do NOT have to be super complex to warrant adding 6.905.



Procedures



- 1. Form project teams – two or three people to a team.**
If you want to work alone... Don't!
Teams really can get more done, more quickly.
Help each other by checking each other's wiring, vhd code, etc.
Help each other by trying to figure out why a subsystem doesn't work – find bugs.
- 2. Decide what to build. Your project should do something.**
Some unique feature
Be visually or aurally appealing.
Working projects will be video taped (at your option).
- 3. Write up proposal abstract.**
Convenient form is the last page of project info handout.
Turn in abstracts in lab by 1 PM Wednesday, April 2, 2003.
We will use this to map TAs to project teams.



More Procedures



- 4. Write the proposal itself.**
Description in words
Block diagram of major parts
Specifications: what will the project do?
Division of responsibilities among team members
- 5. Proposal conference**
Schedule with your project TA.
Bring proposal material.
Expect pointed discussion.
- 6. Detailed design**
Based on proposal and proposal conference
Wiring diagrams and source code
Supported by design conferences
Should be done BEFORE construction begins
Design presentations – scheduled at class hours

Attendance at all design presentations is required.



Still More Procedures



7. Construction prerequisites

Everything else done – don't work on anything but the project.
Detailed design (step 6)

8. Debug

9. Demonstrate

Typically during the last week of the term – (Earlier is OK!)
Working projects will be video taped (unless you decline).
Video taping is required for any prize nomination.

10. Report

A formal report (as described in the report guide) is required.
Report may be prepared jointly with individual sections identified.
Deadline – the last day of classes.

You must build a project, demonstrate something, and turn in a report
in order to pass 6.111.

That is NOT true of other 6.111 assignments.



Extra Units



■ Adding 6.905 makes 6.111 into an 18 unit subject.

- Your project does NOT have to be extra large.
- 6.905 provides six more Engineering Design Points.
 - But 6.905 doesn't satisfy any other requirements (except units).

■ Grading

- 6.111 grade is determined without considering 6.905 registration.
- 6.905 grade is then the 6.111 grade.

■ Requirements

- Must have detailed design done and be ready for construction.
- Must have all of this done by DROP date.

■ Paperwork

- Get your project TA to sign form (penultimate page in project info).
- Troxel or Chandrakasan will sign add card as 'instructor'.
- You may leave paperwork to be signed at the 6th floor parts counter.
- Your advisor must sign add card before you take it to the registrar.



Prizes – Summary of Dates



- **George C. Newton, Jr. Prize – one per year**
 - Best undergraduate project lab in course 6
 - Not always, but often won by a 6.111 project
- **Bell Northern Research Prize – one per term**
- **Best 6.111 project**
 - You can't win both BR and GCN prizes!
- **Summary of dates**

Formation of project teams	ASAP
Project Abstracts	2 APR (Wed) 1 PM in lab
Proposal conferences	7 APR (for a week)
Block Diagram Conferences	16 APR (for a week)
Drop date (adding 6.905)	24 APR
Design Presentations (34-101)	25 APR (3 or 4 sessions)
Demonstration	13 MAY
Video Taping (optional)	14 MAY
Reports due in lab by 5 PM	15 MAY (last class day)