

6.777J/2.751J Design and Fabrication and Microelectromechanical Devices

Spring Term 2004

Massachusetts Institute of Technology

Design Problem Reports

Preliminary Report (Wed. April 7)

This is a 1-2 pg brief outline of

- the major challenges in the project, as seen by the team
- the fundamental approach (e.g., a piezoresistive bulk-micromachined accelerometer)
- which tasks are assigned to which team members, along with a rough timeline

This report only needs to be shared with the project mentor, not the entire teaching staff. Email of MS WORD or PDF documents is fine.

Interim Report (Friday April 23)

This is a 2-5pg more in-depth analysis summarizing the progress to-date and what the endgame is for the team to finish the design by mid May. Identify outstanding issues and how the team will solve them. This report only needs to be shared with the project mentor, not the entire teaching staff. Email of MS WORD or PDF documents is fine.

Final Presentations (Wed. May 12)

During the day (times are TBA) each team will give a talk and answer questions from the audience and a panel of independent judges. Total time including questions will be 30-min/team, and this will be strictly maintained. After all the talks, an award is given to the best presentation. Each team makes ONE presentation—each member can give part of the presentation, or one/two member(s) can give the whole presentation.

Final Report (Thursday May 13, 5PM SHARP)

The final report should summarize the final device, including major design issues, modeling approaches, performance specs, etc. The report should aim for 25-30 pages. Shorter is acceptable. **Longer is not.** Fonts should be at least 10 pt and margins at least 0.75". It is important that the report be coherent and concise—these will affect the grade. All members of the team get the SAME grade.

Each team must submit one **HARDCOPY** of the report to either Joel Voldman at 36-824 or Carol Livermore at 3-449C by **5 PM on THURSDAY MAY 13.**

Each team must also submit to Joel or Carol a **SOFTCOPY** of the **REPORT in PDF format** and the **PRESENTATION in PDF or PPT** format by **5 PM on THURSDAY MAY 13**, either burned to a CDROM or **EASILY** downloadable from the web. **DO NOT EMAIL.**

The softcopy is **IN ADDITION** to the hardcopy. Each team **MUST** submit a **PHYSICAL HARDCOPY** upon which we will base the **TEAM's** grade.