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2.007 Design and Manufacturing I
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Milestone 6

Complete MCM Fabrication

Schedule for: week of 9-13 March.

Deliverable:

- 1. 2 pages documentation in your lab notebook.**
- 2. Your completed MCM fabricated for demo in lab.**

Week's Activities

This is the second week of MCM fabrication so your MCM can be completed and demonstrated before spring break. If you are not on a schedule to complete these two milestones, you need to think hard about your over-all design and fabrication plan because experience shows it is very difficult to catch up in the short time left after spring break. You should also complete your CAD model of your MCM. Make any changes necessary to depict the "as-built" configuration.

1. Complete MCM Fabrication

Start by updating your Fabrication (Work-)Plan for your MCM. (See my notebook comments.) Remember, as discussed in lab, the work plan should contain a list of steps (tasks) with completion dates and time estimates. Tasks taking requiring an hour or so are at an appropriate level of detail. The final column in your plan should be the actual time required for the task. Completion dates are necessary so you can answer the question, "Are you on schedule?"

Calculate for last week's fabrication efforts what the ratio was of actual time to estimated time was. Then ask how can I improve my planning in future weeks.

Keep meeting with your peer group to compare experiences, share ideas, and provide feedback to each other. I've noted some excellent feedback.

1. Complete MCM CAD Model

If you haven't already, complete your CAD model of your MCM. It's always useful to show mechanisms in their open and closed position, or in their up and down position.

Milestone 6 Specific Deliverables

A. in Notebook

1. Your up-dated Fabrication Work-Plan. Calculate the ratio of actual to planned effort and discuss.
2. In your notebook, summarize any major problems you had or changes you had to make. How could these have been avoided?
3. Printouts of MCM CAD model.

B. in Lab

1. Bring your completed MCM to lab ready to show.