MIC1 Project Demands - spring 2008   Henning Hargaard, March 3, 2008

In the last 6 weeks (approximately) of the MIC1 course, every group should do a project work.

When the semester ends (30th of May), a project report should be delivered.
This report will be the basis for the MIC1 oral examination.

The main purpose for the report is to document the actual project work. The report must observe the general rules stated for the MIC1 report (see separate note on this topic).

At the examination, the group members will do a common (short) presentation. Then the group members will be examined individually. The marks (Danish 7 scale) will be individual for each of the group members.

The project subject *has to be formulated by the group* (email the teacher).
After the teacher's approval, the project work can start up.

There are no strong limits for the project theme. To such an extent as circumstances may require, special hardware components can be bought-in (please make requests as soon as possible).

It is desirable, that the group defines their subject themselves (based on own interests).
If you are out of ideas, consult the teacher for help. Also, the teacher might form an estimate of the project size. Experience tells that some projects tend to be too complicated. It is often easier to add functionality, than to remove functionality.

Before starting the project phase, the teacher must approve your project proposal.
This only has to be a few lines sent by email.

These are the project demands:

- You have to use a microcontroller from the Atmel AVR family.
  There is no demand for using the Mega16. For an overview refer to (atmel.com -> products -> microcontrollers -> AVR -> devices -> parametric product table).
  The Mega169 controller and the Butterfly Evaluation Board could (as an example) be used as platform.

- The project could be to develop a (small) microcontroller based equipment, or it could be a more theoretical project.

- The design should be done structural (UML is a good choice, but <u>not</u> claimed).

- The project extent should (as minimum) correspond to the available time (6 course week including preparation time). All group members will be responsible for the project work.