

prism

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# PROGRESS MEETING 1

To: Dylan Saunders  
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*insomnia design*

Prepared on Wednesday, February 14, 2007

**AGENDA**

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In this progress meeting we will discuss the following topics:

- Milestones reached:
  - ◆ Wrote program that interfaces with a serial port
  - ◆ Website development
  - ◆ Schematic sheets
  - ◆ PCB layout for LEDs
- Milestones yet to be reached:
  - ◆ Send PCB schematic for fabrication
  - ◆ Solder LED board
  - ◆ Finalize schematics and PCB design for microcontroller board
  - ◆ Acquire a few more miscellaneous parts
  - ◆ AVR programming
  - ◆ Testing and debugging

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**MILESTONES REACHED**

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We have created a simple program that will interface with a serial port, but we have very limited means of testing it until the microcontroller is programmed. For our website, the main framework has been built, and it is now simple to modify and update it with current information.

So far we have included the following items to the website:

- Member profiles
- Engineering journals
- Datasheets for ICs and other parts
- Gantt chart
- Photographs of our team working

The majority of the schematic sheets are done as well as the PCB design for the LED board. There were initially problems with routing all the connections on the board, of which there are over 1,000. George and Steve were able to develop an excellent method of organizing the LEDs and headers, providing us with a very attractive, symmetrical, but most importantly, easily routable board.

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**FUTURE MILESTONES**

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Currently, we are working on finalizing the design of the LED board, which should be done by today. Afterwards, we will send the design in for fabrication, and proceed with soldering as soon as we get the board. Programming the ATmega16 is still proceeding as always. Also, progress is being made towards mastering the I<sup>2</sup>C-bus interface, and how we can use it with our project.

According to the Gantt chart, so far we are ahead of schedule. Although we are facing difficulties, these are minor ones that will be solved before the deadline. Also comparing ourselves to the rest of our class, we are confident of our progress and look forward to updating you as we continue this project.