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2.00AJ / 16.00AJ Exploring Sea, Space, & Earth: Fundamentals of Engineering Design
Spring 2009

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2.00A Technical Report #1 Motors/Design Review

Due 23 April, 2009 Online posted to Course Website.

Details:

3-5 page report (12 point, 1" margins) outlining your design and detailing the performance analysis of your motors and propellers combinations. How are your motors aligned and how are the forces applied, how are they operated (on/off, variable voltage/current?), how well do they perform (is it was you expected/calculated?), what measurements/calculations did you do during the design process, what information do you wish you had better knowledge of, any reflections you wish to include, etc... We expect about 3 pages text, double spaced with figures this could extend to 5 pages.

Layout:

Consider formatting your paper with a Summary, Design Overview, Analysis, Performance, Conclusions. Finish with a separate paragraph outlining each team member's basic responsibilities. Don't forget to list any references used AND give your report a title, date and Authors!!! Please number your pages.

Technical:

Embed all figures IN the text, make sure they are referred to (see figure 1 or Figure 1 shows...) and all have captions (e.g. Figure 1: Drawing of our vehicle showing the placement of the motors (stern view).) Make sure to be consistent with your verb tense throughout. The Design overview can either be past or present tense, just be consistent. For the rest of the report present tense is best. In these types of reports use third person: "The motors are mounted on the vehicle at right angles..." versus "We mounted the motors on the vehicle at right angles..."

**THIS REPORT IS A TEAM EFFORT. PLEASE PROOF READ BEFORE
HANDING IT IN!!!**