Global Engineering Design Project with Brazil

Freshman Engineering In-class Design Project
Team Assignment

Objectives: To provide first-hand experience in applying the engineering design process to a multi-national, global engineering project. To gain experience in working via the Internet with another design team to design an artifact. To gain experience in working with an engineering team in another country. To gain experience in working with an engineering team that speaks another language.

Problem: Design and implement a website that describes the engineering design process and that archives papers from your other design projects in this class. This must include the perspective from NCSU (North Carolina State University) and from UFJF (Federal University of Juiz de Fora). The introductory material must include:

- Description of the course objectives.
- Brief descriptions of each university and engineering college with links to other sites with more material.
- Brief descriptions of the course at each university with links to other sites with more material.
- Versions in each language.
- Outline of the website content and a site map.

To do this you must identify the tasks for the project, determine what resources are needed, determine what skills you have in your groups, and map out a plan that allocates people to tasks within the context of a project schedule. This planning should be part of your finished website. There should also be a final report that is online and part of the website. Both university groups should plan the project planning jointly. This means you will have to interact via the Internet to do this. The final project report should contain a description of how you organized, what tools you used, as well as an objective critique of the joint project. This critique should identify problems and recommend solutions. Be aware though that regardless of the problems, engineers everywhere are expected to succeed on time and within budget.

Tools: The Brazilian students and instructor will receive guest accounts on Eos and will have access to NCSU's computer system. The website will be hosted at NCSU and mirrored at UFRJ. Consequently, you have access to all tools available on Eos. You also should use any tools you consider useful. These could be tools on yahoo, hotmail, etc.

Remember: Your work will be scrutinized by the engineering communities in the U.S. and in Brazil. These engineers are the best in the world. Additionally, your website is also available to anyone in the world. You will have a large audience. We are depending upon you to uphold the high standards from NCSU and from UFJF established by those engineers who have gone before you. Do not let them down.