Send us your problems...please

The Mechanical Engineering Department in the University of Rochester is soliciting design challenges for the 2014/2015 academic year. Take the opportunity to have some of our best and brightest work with you on your specific challenges. The senior design course is a unique opportunity for students to interact with practicing engineers and work on an open ended project. The teams of students get to exercise project management, design, testing and documentation skills in a near real world setting. This experience often shapes and refines their career interests. There are many benefits to working with the students and UR including:

- Enthusiastic students with very diverse perspectives and skillsets
- Access to state of the art tools and facilities
- Opportunities for collaboration

Projects that are best suited are those with a clear problem statement, but without a defined solution or prototype path. These give the students and the mentors with the greatest opportunity for interesting solutions.

The students will form teams in late November of the fall semester and familiarize themselves with the required disciplines and begin work on the project in January. The teams will consist of approximately 4 students and can work on a range of different activities including:

- Industry benchmarking
- Concept generation
- Prototype development and testing
- System simulation

Along with the submission of a design challenge, we ask for a mentor or mentors from the company to participate along with the faculty and staff here at UR. The responsibilities for a design mentor include:

- Project definition and agreement on activities. An example project definition form is attached. This is a guideline and can be modified as the project and timeline require. We can work with you to scope this properly.
- Weekly meetings with students on a mutually agreed schedule. Typically ~10 meetings over the course of the semester, either on your site, teleconference, or web meeting.
- Project sign-off and participation (if possible) in the Hajim Design day at UR on May 1, 2015.

If necessary, we can develop a formal agreement related to intellectual property, or work within the context of existing IP.

Contact:

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