EE 445/545: SAMPLED-DATA SYSTEMS
GUIDELINES FOR DESIGN PROJECTS
Spring 2007, Sezer

Design projects will be carried out by groups of three students according to the following schedule:

- Week 1: Groups will be formed.
- Weeks 2-4: Each group will search for a realistic control problem (e.g., electrical machines, wind turbine, automobile suspension system, coupled inverted pendula, paper machine, chemical processes, etc.) Good sources are
  - Control Systems Magazine
  - IEEE Transactions on Control Technology
  - IEEE Transactions on Industrial Electronics
  - Control Engineering Practice
  - Journal of Process Control

By the end of the 4th week each group will submit a brief (one page) project proposal outlining the problem to be worked on, including literature survey and references.

- Weeks 5-12: System modeling, control design, simulation by SIMULINK.
- Weeks 13-14: Presentation of the results and submission of the project report.