

**Oral Report Notes**  
**Homework #1**  
**Variation and Its Economic Consequences**

Date: Monday, June 8, 1:05-2:55 (the first meeting of 16.881)

Objectives:

- Provide motivation for the course by defining a *real* problem that we may be able to solve with robust design
- Prompt exploration of alternative term projects
- Stimulate thought about variation and its effect on your company

Oral Report

- 1) Choice of system for investigation.
- 2) Definition of the function of the system. This function should have a quantitative definition insofar as possible.
- 3) Description of an undesirable variation in this function.
- 4) Investigation and quantification of the economic consequences of the variation in this function.
- 5) Quality of exposition
- 6) Time (<2 minutes per team member)