Drawings and Technical Writing

24-370 - Spring 2011
Professor Steve Collins

Announcements

• HW2 due in folder
• SolidWorks Simulation issues
  – Tools → add-ins -or- reinstall using correct serial
• Questions about the project?
  – The multi-part conundrum: pin length
  – Reminder: part specifications due Monday
• Questions about HW3?
  – Due one week from Friday
Project 1 testing setup

Feedback Results

• The Good:
  – In-class exercises, sketching, SolidWorks
  – Applications, real-world, projects

• The Bad:
  – Details: laptop notice, talk louder, office hours
  – Homework: confusing, too long
  – Scheduling

• And the Ugly:
  – Speed and level (stress analysis, SolidWorks)
  – Blackboard
Truss Design Study

- Paul Egan, super-TA

Intuitive Design Exercise

- Loading
- No trusses
- Min. mass
- 5 minutes
- Self critique
- Peer critique
Engineering Drawings

- Efficiently, accurately, transfer design
  - Unambiguously, uniquely describe part
  - Perfectly constrained
  - Standards
- Practical uses
  - Hand-machined parts: full drawing
  - CNC parts: key feature drawing

Real Part Examples

- SEA motor block
  - Full drawing for hand machining
- CESR toe block
  - Key features drawing accompanying CAD files
SW Engineering Drawing Exercise

Questions?