

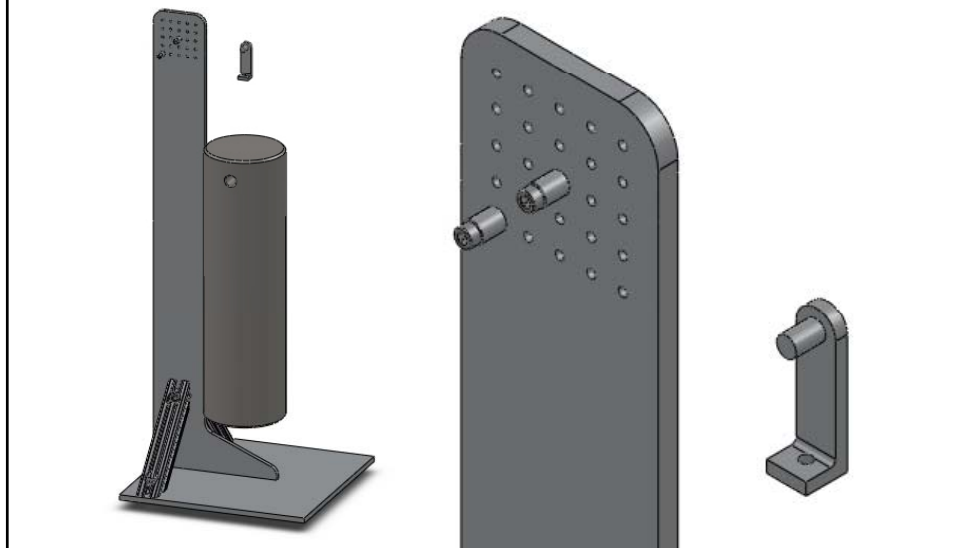
Drawings and Technical Writing

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

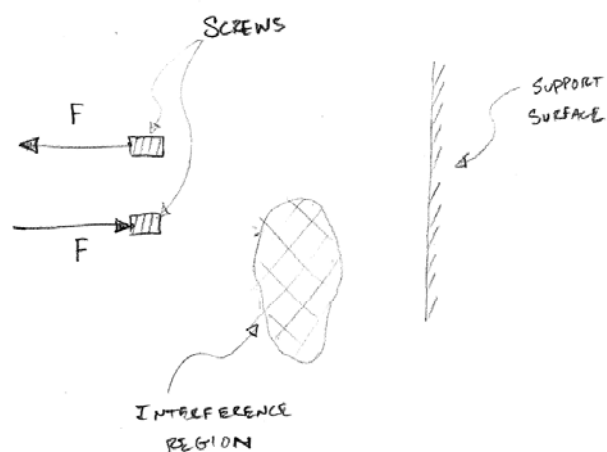
- The Good:
 - In-class exercises, sketching, SolidWorks
 - Applications, real-world, projects
- The Bad:
 - Details: laptop notice, talk louder, office hours
 - Homework: confusing, too long
 - Scheduling
- And the Ugly:
 - Speed and level (stress analysis, SolidWorks)
 - Blackboard

Truss Design Study

- Paul Egan, super-TA

Intuitive Design Exercise

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



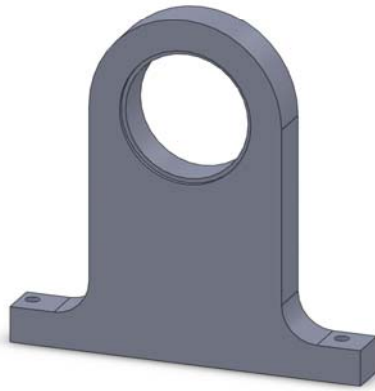
Engineering Drawings

- 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?