December Presentations and Version 1.0 Report Details
Fall Wrap up

• Think of all that we have learned
  – Client needs assessment
    • How to translate wants into tangible and technological solutions
  – Concept design and prototyping
    • How to evaluate designs without spending much money
  – Six Sigma and parametric design
    • Ways to efficiently collect data and model systems
  – Standards
    • How to set goals for performance/safety and test them
Winter Break

• Winter break should include the fun activities
  – Like sleeping, Christmas, Hanukah, Festivus, etc.
  – But it should also include design!

• You have to have a presentation ready by the second week of classes to update us
  – It will be casual and include lots of group discussion
Spring Planned Events

• Bi-weekly meetings
  – TBD

• Mid March
  – Design Review III
    • Panel review of progress

• May – Reading Day
  – Final presentations with vendor fair
Presentations

• What should it include?
  – Project Description
  – Inputs/Outputs mapped to verification
    • Verification can be standards, six sigma, other tests
  – Six Sigma
  – Timeline
  – Drawings, diagrams
    • Need more than 1 view, configuration view helpful
    • If software, need flow diagram with input/output algorithms
Version 1.0 Report – Due 12/14

• Each team has negotiated a V 1.0 with me during meetings

Report should include

• Project Background & description
• Literature/patent search summary
• Design Inputs/Outputs/Verifications
• Six Sigma
• Documents assigned for class
• Drawings, diagrams
  – If software, need flow diagram with input/output algorithms
• Data gathered, if any (preliminary testing)
• Images
• Budget
  – Money spent so far with receipts and purchase form copies
  – Planned spending – best estimates
Version 1.0 Report

- A comprehensive report of your fall progress
- In the style of an executive summary
  - Problem Statement
  - Mission Statement
  - Analysis of previous designs/related designs
  - Constraints & Input/output requirements
  - Design Inputs/Outputs/Verifications
  - Parametric design
  - Six Sigma
  - Any external evaluations/meetings
  - Reflection of design project for fall
  - Recommendations for spring
Version 1.0 Report

• Problem Statement
  – Problem is clearly defined with considerable depth and detail, justification of problem highlights to concerns of client/stakeholders, offers objective detail to allow for measureable design requirements

• Mission Statement
  – Should incorporate the who, what, when, where, and how of the team and project. It should incorporate value, inspiration, plausibility, and specificity. What is your business, who are your customers, how are you different than competitors, what philosophy guides you, etc. It should be short but impactful.
Version 1.0 Report

• Analysis of Previous Designs
  – Documentation of prior attempts to solve this problem or closely related problem (use credible sources), analyze each solution and identify strengths and shortcomings in a clear, detailed manner

• Constraints and Design Requirements (inputs and outputs)
  – Outline constraints related to your design (environmental, social, etc.). Design requirements should be listed and prioritized, they should be objective, measurable, and lead the team to a solution to the problem – should match the needs of client/stakeholders
Version 1.0 Report

• Inputs/Outputs/Verification
  – Process for generating and comparing design ideas, why was the solution chosen (compare to design requirements) and plan for testing

• Six Sigma Plan
  – What you turned in this week...design of experiment with variable definitions and settings, plan for experiments, results and model if ready
Version 1.0 Report

• Reflection for fall
  – Reflect on your progress. Were timelines achieved? Where are any bottlenecks? (Should be descriptive but not whining or complaining)
  Summary of what was learned.

• Recommendations for spring
  – What is your plan for spring? (Gantt chart) What problems do you foresee? What areas need improvement?
Version 1.0 Report

- Send to me and your clients via email with all team members copied.
- Thank your clients for the project, wish them happy holidays, etc.
DARS

• Review your DARS
  – If you agree with classes left and track designation on your DARS, you’re done!
  – If you need a correction, let someone know!

• Apply for graduation through registration portal
ICES...

You know the drill

Figure 1. How awesome I am

SOURCE: Because I said so

freshspectrum.com