03/12: Design Day and the Project Video

The Capstone Experience

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Design Day and the Project Video

- Design Day
- Project Video
Design Day Overview

- Engineering Building
- Friday, April 19, 7:00 a.m. – 2:30 p.m.
- Exhibits of Design Projects
  - From Entire College of Engineering
  - Open to the Public
  - Visitors Include
    - Faculty
    - Family and Friends
    - Corporate Sponsors
    - Middle and High School Students
- Dress is Business
Design Day Activities

• Design Day Setup, Thursday April 18
  ▪ 3rd Floor Engineering Building
  ▪ 12:00 p.m. – 2:00 p.m.

• Design Day, Friday April 19
  ▪ 07:00 a.m. Setup
  ▪ 08:00 a.m. Team Exhibits
  ▪ 12:01 p.m. Tear Down and Lunch
  ▪ 01:15 p.m. Awards Ceremony
Team Exhibit

- Table
- iMac(s)
  - For Software
  - For Project Video
- Other Device(s)
  - MacBook Pro
  - Tablets
  - Phones
- Poster
  - DD Booklet Page
  - Provided by Dr. D.

Team Evolutio
ERP Air Force: Drone Elephant Recognition and Tracking
Families
Middle and High School Students
Design Day Awards

• Awards
  ▪ Auto-Owners Exposition Award
  ▪ MSUFCU Praxis Award
  ▪ TechSmith Screencast Award
  ▪ Amazon Sigma Award

• Conferred By
  ▪ Panel of Judges
  ▪ See http://www.capstone.cse.msu.edu/design-day/awards/#panel-of-judges

• Based On
  ▪ Project Plan
  ▪ Project Video
  ▪ Design Day
Team Evolutio Wins Urban Science Sigma Award
Design Day and the Project Video

✓ Design Day

➢ Project Video
Project Video

• Similar to Design Day Booklet Project Page
• Tells Project Story
  ▪ Your Project Sponsor / Client
  ▪ The “Problem”
  ▪ Your “Solution”
    o Use Case(s)
      ❖ Two Or Three
      ❖ How will your sponsor use your software?
    o Avoid “Boring” Stuff
      ❖ Account Creation
      ❖ Login Screen
      ❖ “Boring” Administration Details
      ❖ Every Last Feature and Option
      ❖ Zzz...
    o Technical Details
      ❖ Acknowledgements
• ~10 Minutes in Length
  ▪ Little wiggle room on time
• Professional
• Lots of Work

←Don’t forget. Like Design Day Booklet
Project Video How To

• Story Board
  ▪ Plan Video and Audio
  ▪ Very Specific

• Capture Audio (Voice-Over)
  ▪ Write Script
  ▪ Record Using “Good” Microphones

• Capture Video
  ▪ Screen Video or Shots
  ▪ Photographs
  ▪ Digital Video
  ▪ (While Listening to Audio?)
• Edit
  ▪ Video
  ▪ Audio
  ▪ Use
    o Camtasia
      ❖ Use MSU Site License
      ❖ See https://www.techsmith.com/tutorial-camtasia.html
    o Other Software of Your Choice

• Produce .mp4
To Do...

• Collect Assets
  ▪ Audio
    o Record Voice-Over
    o Background Music (If Any)
  ▪ Video
    o Screen Recordings using Camtasia
    o Digital Video
    o Digital Photographs

• Import, Assemble and Edit Assets with Camtasia
  ▪ Put All Assets in One Project Folder
  ▪ Use (At Least) Three Tracks
    o Video
    o Audio for Voiceover
    o Audio for Music

• Produce
  ▪ Test Parts and Pieces in Advance
    o For Look and Feel
    o For Readability
  ▪ Produce Entire Video
    o In Advance
    o Preview Entire Video Before Submitting
Project Video Hints

• Look at Previous Videos
  ▪ See Archives > Websites By Semester
  ▪ See Design Day > Awards
    o TechSmith Screencast Award
    o Amazon / Urban Science Sigma Award

• Voiceover
  ▪ We have a few microphones that you may borrow.
  ▪ Record Mary Had a Little Lamb
  ▪ Import into Camtasia
  ▪ Audio Can Be Split and Moved
    o Record with Gaps of Silence
    o If Mistake, Start Over at Previous Gap

• Background Music
  ▪ Make Sure Voice-Over Much Louder
  ▪ Test in Meeting Room Setting
  ▪ Always Err on Side of Too Soft Music
  ▪ (Always a Problem with One Video)
Project Video Hints

- Reading App Text
  - Often a Problem
  - Use Very High Resolution and Pan/Zoom Feature of Camtasia
  - Test In Advance
  - In Room Setting
- Audio
  - Ensure Voiceover is Louder than Background Music
  - Do NOT test wearing headphones.
- Rendering
  - Try Samples
  - In Advance
  - Takes a Long Time
  - Do NOT Press Render Button One Hour Before Due
- Due
  - By Midnight, Sunday, April 14 ← Nota Bene
  - Uploaded to Microsoft Teams General Channel File Space
- Posted Immediately for Project Sponsors

Should be written script, even for demos.
Should not be ad lib.
Do not keep saying “I’m going to go ahead and...”
Project Videos

• See Archives > Websites By Semester
• See Design Day > Awards
  ▪ TechSmith Screencast Award
  ▪ Amazon / Urban Science Sigma Award
• Examples
  ▪ Ford
    SYNC Calendar
  ▪ Team Amazon
    Amazon Web Services: AWSome Availability Zones
  ▪ Team TechSmith
    ACE: Automated Content Editor
Design Day and the Project Video

✓ Design Day

✓ Project Video
What’s ahead?

• Upcoming Meetings
  ▪ W09 03/12: Tu Design Day and the Project Videos
  ▪ W09 03/14: Th Ethics and Professionalism
  ▪ W10 03/19: Tu Rick Grubb, CIO, RPM
  ▪ W10 03/21: Th Team Status Report Presentations
  ▪ W11 03/26: Tu Team Status Report Presentations
  ▪ W11 03/28: Th Beta Presentations
  ▪ W12 04/02: Tu Beta Presentations
  ▪ W12 04/04: Th Beta Presentations
  ▪ W13 04/09: Tu Team Status Report Presentations
  ▪ W13 04/11: Th Team Status Report Presentations
What’s ahead?

• Upcoming Meetings
  ▪ W14 04/14: Su  Project Videos Due
  ▪ W14 04/16: Tu  Project Videos
  ▪ W14 04/17: We  Team Evaluation Forms Due
  ▪ W14 04/17: We  All Deliverables
  ▪ W14 04/18: Th  Project Videos
  ▪ W14 04/18: Th  Design Day Setup
  ▪ W14 04/19: Fr  Design Day
  ▪ W14 04/25: Th  Design Day Wrap Up (5:45 p.m. – 7:45 p.m.)
What’s ahead?

• MAPP Points Reminder ← Nota Bene

  ▪ Last Week of Meetings
    o Tuesday -5.0
    o Thursday -5.0

  ▪ Design Day
    o Timeliness / Dress / Participation -0.5 to -5.0
    o Very Late or Skip -5.0 and – Team Contribution Points

  ▪ Capstone Wrap Up During Exam Week -5.0