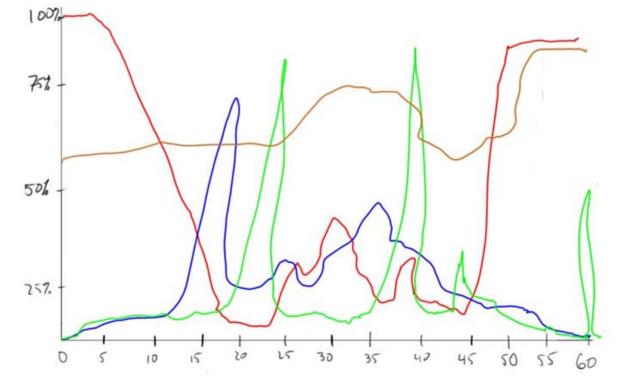
Project Conceptual Design Presentation -how to engage with audience







VIP Team Presentation

Charles Kim – Howard University ckim@howard.edu

WWW.VIPatHOWARD.html

Presentation Event





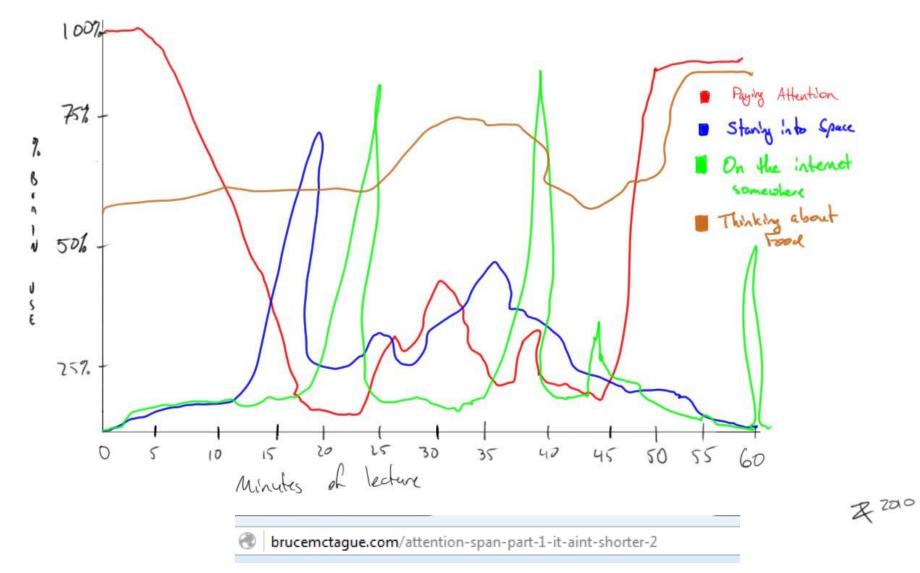




VIP Team Presentation

- Background
- Why: Needs and demands
- What: Problems and Current Status of Arts
- How: Conceptual Designs for Solution
- When: Plan for this and next semester & Progress Made so far
- Who: Team members in charge
- Conclusion: summary

How do we present better? Attention Span



Big Difference between Written Report and Oral Presentation - 1

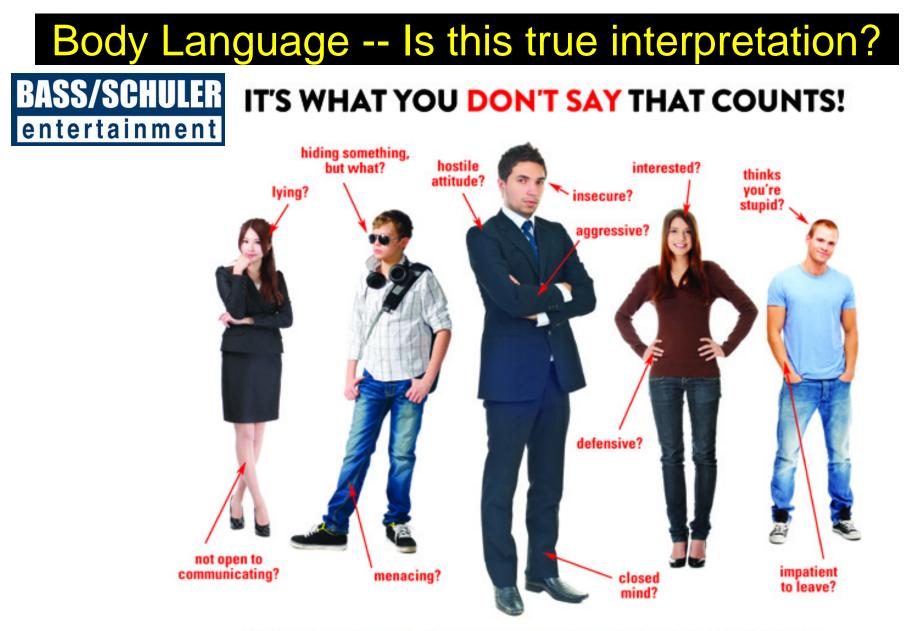
- Pace
 - Written Report:
 - Readers have freedom
 - own pace
 - control the amount of time
 - Read parts and change order
 - Oral Presentation:
 - Listeners have no freedom
 - must keep up with the speaker
 - no control over the time and topic

Big Difference between Written Report and Oral Presentation - 2

- Content and Order
 - Written Report:
 - Readers can scan, reread, refer from text to illustrations and back, or stop to consult another text or a dictionary
 - Oral Presentation:
 - Listeners depends on the speaker making everything clear and in logical sequence
- Feedback
 - Written Report
 - No quick feedback to writers
 - Oral Presentation
 - Immediate Feedback to presenters

Big Difference between Written Report and Oral Presentation - 3

- Length:
 - Written Report
 - vary substantially
 - Oral Presentation
 - carefully planned not to exceed the pre-established time allocated
- Nonverbal Cues
 - Written Report
 - less dependent on nonverbal cues
 - Oral Presentation
 - Strong role of body language, tone, and other nonverbal cues



LEARN TO READ AND INFLUENCE PEOPLE THROUGH NONVERBAL COMMUNICATION.

3 dimensions of Oral Presentation

• A. Content

- Correct delivery of key messages
- Know you subjects
- Do your homework
- 3 phases
 - Tell what you are going to tell (Outline) "Signpost"
 - Tell (Main Body) "Present" + [* Optional --- "Entertain"]
 - Tell what you just told ("Recap" & Conclusive Summary)
- B. Visuals
 - "Everything on a slide must contributes to its purpose"
- C. Delivery
 - Effective Presentation

A. Presentation Content

- <u>Outline early, Summarize</u> the key points at the end
- Necessary amount of information to convey message <u>– Important</u> <u>highlights</u>
- <u>Hold audience interest</u>: reinforce the motivation for the work being presented.

VIP Team Presentation Content -- Outline

• For each team

- "We have a project.....
- We do this project because... {background, need, demand, importance, etc}
- In plain English, this is the **problem** statement of the project
- In technical terms, this project aims to satisfy the following requirements...
- So we worked and came up with a few initial conceptual designs, and analyzed them and selected the best one
- And this is the **final design** which has this hardware structure and software blocks
- We plan to realize this final design into reality with the following timelines and implementation plans
- And so far, we have made THIS much of **progress**
- In conclusions, the project "

Conceptual Design Presentation Format - 1

• Cover (1 slide)

- Title and Members

Background (2 slides)

- Background of the project (industry, technology, customer, etc)
- Needs and demands in customer's point of view

Problem Formulation (2 slides)

- Refined Problem Definition in Engineering point of view
- Design Requirements:

Current Status of Art (1-2 Slides)

- Prior art and available technology, weakness, etc

Solution Approaches (4 - 5 slides)

- Overall introduction of the technology field (with system level schematics) and summary of the alternative solution ideas
- Explanation of the first and major conceptual design approach (why this may work)
- Explanation of the other conceptual design approaches
- Top Design Selection process

Conceptual Design Presentation Format - 2

• Implementation Plan (1 - 2 slides)

- solution implementation
- Timelines and milestones

Progress Made This Semester(1-2 slides)

- Deliverables

Costs and Resources (1 slide)

- Rough budget
- Resources available and resources needed

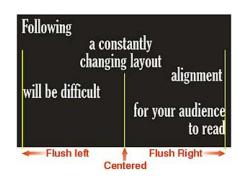
Conclusion (1 slide)

- Crisp and clear summary of the proposal

B. Presentation Visuals

- Slides for Presentation Assistance
 - One nice figure is better than a thousand words.
 - Discrete, not continuous: Bullet Items
 - Much more visually-oriented
 - Layout and Appearance are critical
 - Slide Storyboard





USING ALL UPPERCASE ALL THE TIME MAKES TEXT REALLY HARD TO READ



Storyboard

• What is a storyboard?

 "a series <u>of diagrams</u> that are used to <u>depict the composition</u> of a <u>video segment (oral presentation)</u>"

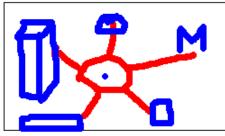


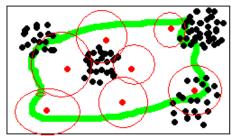


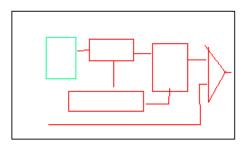
Storyboard Steps for Presentation

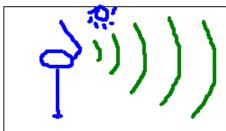
• Steps in storyboarding

- Develop a rough story line of presentation
- Plan number figures to summarize the story ("project")
- Printout each figure following the story line one a separate sheet of paper and assemble into a storyboard
- See if you can make out the "Project story" from the figures.
- Add, delete, and revise figures and bullet points to support the overall theme
- THEN, add texts
- Add more slides if necessary









Tips for good Visuals

- Start from storyboard
- Begin from the objectives of presentation
- Determine the purpose of each slide
- Make sure that everything on the slide contributes to its purpose
- No more than 2 ideas per slide
- Replace a text-dominated slide with a simple figure with legend
- Bulleted lists (with big font size)
 - Show contents without writing complete sentences
- Spell out acronyms and abbreviations
- Avoid unnecessary animation use only that assists the clarity of presentation
- NOTE –Visuals are an aid to the presentation. So you have to be able to talk and present even without the aid. Charles Kim Howard University



Bad Slide Example

Background

Who:

The requirements for this project have been principally set by Northrop Grumman NGC.

What:

Design of the Grid-Eye Sensor System will detect both the position and the intensity of the heat radiated by the surface of either a single or multiple targets.

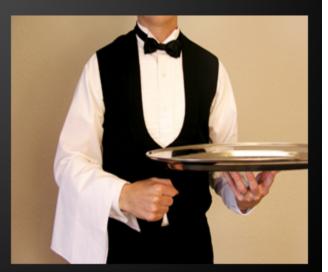
Why:

Northrop Grumman will thus have the choice to utilize the finished product for commercial and military purposes as they see fit in satisfying their needs.

Bad Slide Example

BACKGROUND

The foundation and idea of the project was conceptualized by the previous senior design group, who were not able to fulfill their list of robotic tasks due to time constraints. However, we have been tasked to further build on their work by not only fulfilling their list of requirements, but also adding our own robotic tasks as well. With that being said, the idea of an autonomous robot appealed to the group.



Bad Slide Example

Conclusion

Overall after assessing the situation, we have decided that creating this robot would be beneficial because its completion can assist its user in a great deal. It does not have a need that is substantially large however since convenience is an aspect that humans strive for on a daily basis this will prove to be a worthy device to purchase. From the design requirements that we mapped out, to the price that it is going to cost this device can be constructed and be fully functional by the project completion date.





people visually impaired, 39M blind

- Dimitations and challenges
 - Lack of surrounding awareness
 - Lack access to information

Distomers needs

- Reliable navigation assistance
- More accessible information
- Other PDA like functions: calendar, planner, clock

MORE INDEPENDENCE, BETTER LIVING!

Background

How do people ensure they have all items needed for an event?

REMINDERS

20 Sunday May 2012		Re		minders	
=	Eat lunch	- 25		Write story about cats.	>
	Write IOS Tip for Monday	- 22	-07	Eat at Joe's	2
			11	File my taxes	3
			10	Fuss and fight	2
			32	Eat lunch	2
			12	Play video game about cata	3
			10	Test sync	5

CHECKLISTS



11/14/2012

How is monitoring and identification done in our society today?

RFID TECHNOLOGY An RFID system consists of Reader Transponder or tag



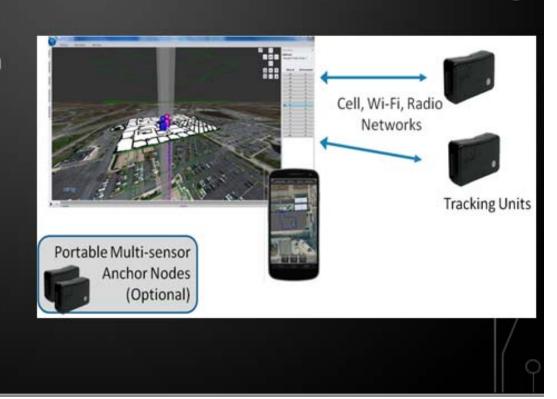


HOMING DEVICE: IPS

- Indoor Positioning System
- TRX Systems

ò

- NEON Indoor Maps
 - Bluetooth (Radio)
 - Wi-Fi
 - Cellular



Current Status of Art



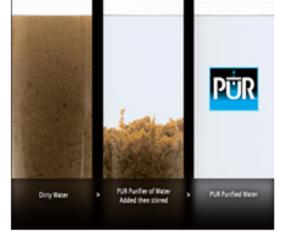
Solar Distillation

Drawbacks:

Biosand Filters - Timely process, Limited to the amount of use per day **Solar Distillation** -Water bottles have to be present **Chemical Disinfection-** Supply of chemical tablets must be present

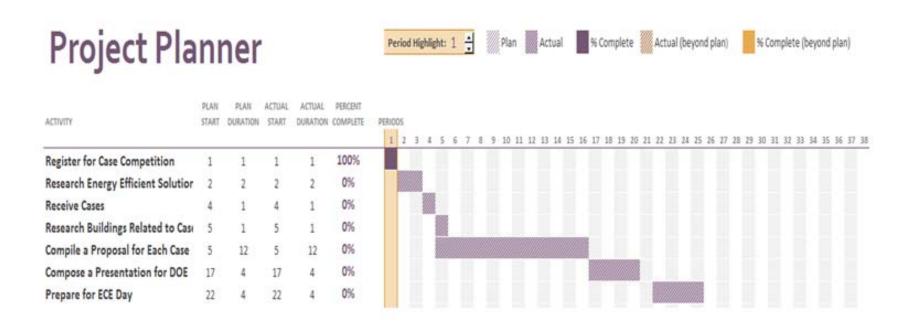
Methods do not use a technical approach

Water Sand Gharcoal (Washed) Cotton Gravel Biosand Filters



Chemical Tablets

Project Management



C. Presentation Delivery

- Remember "You are better presenter than you think"
- Present in a relaxed, yet professional way
- Convey precise technical information clear to audience
- Practice, Practice, and Practice





Delivery Tips - Voice

- Avoid reading slides word for word
- Project your voice and keep your head up and speak so that those in the back of the room can hear you
- Speak at relaxed pace
- Avoid repeat sayings: "basically"
- Maintain precision
- Use complete sentences when speaking and avoid pausing for too long
- Strong and Impressive Conclusion

Delivery Tips – Posture and Body Language

- Maintain Eye Contact with audience
 - Pick 3- 4 people in different places, & rotate
- Avoid twitching, swaying, or snapping fingers
- Avoid your hands in pockets or crossing arms
- Dress appropriately Dress Code
- Show enthusiasm Body Language





Dress Code for Project Conceptual Design Presentation

Public Presentation
Business/Smart Casual



www.thedressreview.com

CASUAL DRESSES

TOP 3 SUGGESTIONS ABOUT WHAT BUSINESS CASUAL DRESS TO WEAR

Delivery Tips – Answering questions

- Cannot be fully planned ahead of time
- Try to anticipate questions
- Advice for handling questions effectively
 - Make sure you understand the question
 - Knowledgeable humility is the best ally
 - Avoid belittling question asker
 - Use questions as a means of clarification
 - Learn from the questions
 - If you don't know the answer, say so.
- Repeat the question, in a large room, so that everyone knows what it is



Team Presentation

• Format

- Equally divided presentation times
 - First, tell the audience who is going to talk on what
 - Take turns
 - Then, the first person concludes
- Dialogue Style presentation
- Tag team presentation
 - Anchormen and remote correspondents

• Tips

- Plan ahead and do practice, a lot.
- Everyone should share the presentation
- Smooth Transition from a presenter to another
 - A presenter should wrap up own segment,
 - then build a bridge that links what they said to the next presenter
- Decide Position and Roles in advance
 - how you will position yourselves
 - who will be where and
 - what they will do while another member is speaking?
- Take pains to make sure that
 - everyone in the group is doing his/her share
 - Everyone performs well





