Final Stretch to EECS Day (April 20)
Preparation

The journey is almost over and you'll jump soon

EECE404 Senior Design II

Electrical and Computer Engineering
Howard University

Instructor: Dr. Charles Kim

Toward the Goal Line

Date	Activities
T 4/10/2018	• Lecture on Final Presentation Format • **Introduction of VIP Survey Participation (Extra Credit 2)**
T4/17/2018	• Final Rehearsal Presentation by all teams (Dress Code: Business) : 10 minutes each. • **<u>Bring Your Product/Demo</u>**
F 4/20/2018	***EECS Day – Formal Presentation and Demonstration***

Goooooooooooal !!!!

Date	Activities
T 4/24/2018	• **Regular Class (Last) – Course Survey etc** • **11:59pm Submission of Final Report (pdf Email)**
W 4 /25/2018	• **5:00pm Submission of (1) Peer Evaluation (via email – the same form) (2) Team Project Binder**
R 4/26/2018	• **5:00pm Submission of 1-minute elevator pitch video or audio file (Extra 5 pts)** • **5:00pm VIP Survey Participation (Extra Credit 2) – Online (extra 2 pts)**
F 4/27/2018	**Grade Report for PG**

VIP Survey

- **Extra Credit (2 pts)**
- **Due: R 4/26/2018**
- **http://www.mwftr.com/VIPatHUteams1718.html**

VIP Survey ONLINE CLICK

(Survey is conducted at the end of each semester)

Suggested Presentation Slide Sections

1. **Cover (1 slide)**
   - Title and Members & faculty advisor & date
2. **Problem Definition (1 – slide)**
   - **Long –term goal**
   - **2017- 2018 academic year goal**
   - **Problem Statement**
3. **Design Requirements (1- 2 slides)**
   - Refined Problem Definition in **Quantity**
   - Design Requirements: emphasis on **constraints and rules and regulations**
4. **Current Status of Art (1 - 2 Slides)**
   - Prior art and available technology, weakness, etc
5. **Solution Design** `--- FINAL DESIGN ( 1 - 2 Slides)`
   - Explanation of the solution with schematics and diagrams
6. **Implementation Process (4 - 5 slides)**
   - Assigned tasks for solution implementation
   - **Photos, screen shots, circuit diagrams**, etc, etc.
   - Testing of the integrated system
   - **Video clips**
7. **Conclusions (1 slide)**
   - Crisp and clear summary of the presentation

Presentation Visuals - Revisited

- Slides for Presentation Assistance
  - One nice figure is better than a thousand words.
  - Discrete, not continuous: **Bullet Items (no complete sentences)**
  - Much more visually-oriented
  - Make a slide design simple and crisp
  - No uppercase all the time
  - Layout and Appearance are critical

Good Slide Example

Background

- 284M people visually impaired, 39M blind
- Limitations and challenges
  - Lack of surrounding awareness
  - Lack access to information
- Customers needs
  - Reliable navigation assistance
  - More accessible information
  - Other PDA like functions: calendar, planner, clock

MORE INDEPENDENCE, BETTER LIVING!

Good Slide Example

Background

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

REMINDERS

CHECKLISTS

How is monitoring and identification done in our society today?

- RFID TECHNOLOGY

  An RFID system consists of

  Reader

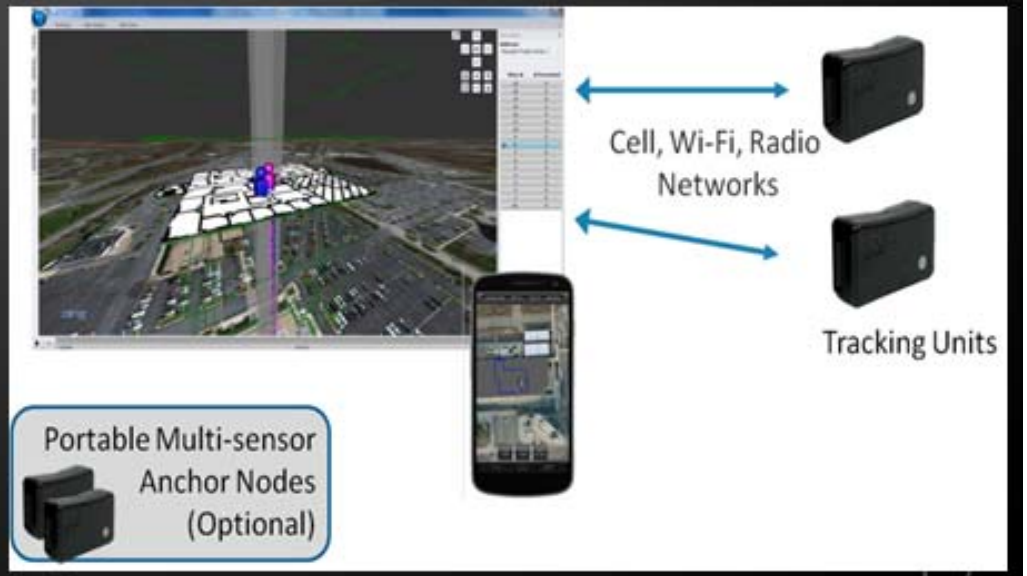
  Transponder or tag

11/14/2012

Good Slide Example

HOMING DEVICE: IPS

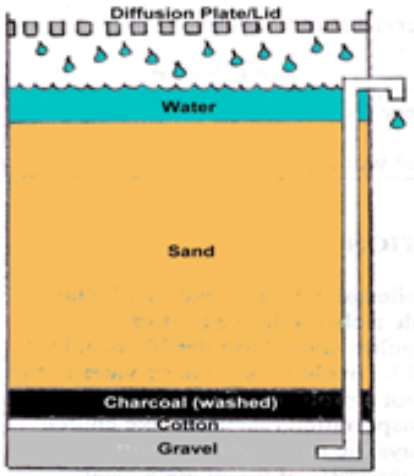
- Indoor Positioning System
- TRX Systems
- NEON Indoor Maps
  - Bluetooth (Radio)
  - Wi-Fi
  - Cellular



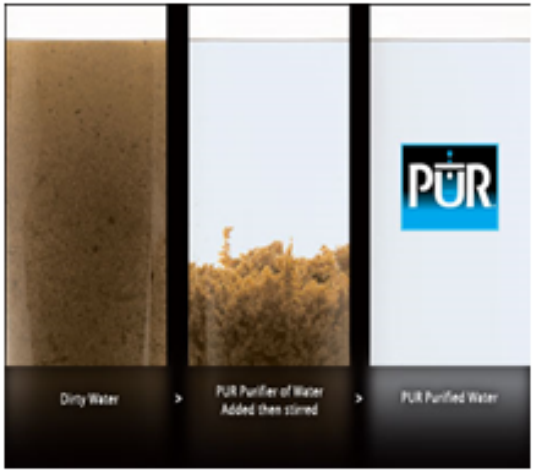
Good Slide Example

Current Status of Art

Solar Distillation



Biosand Filters



Chemical Tablets

Drawbacks:

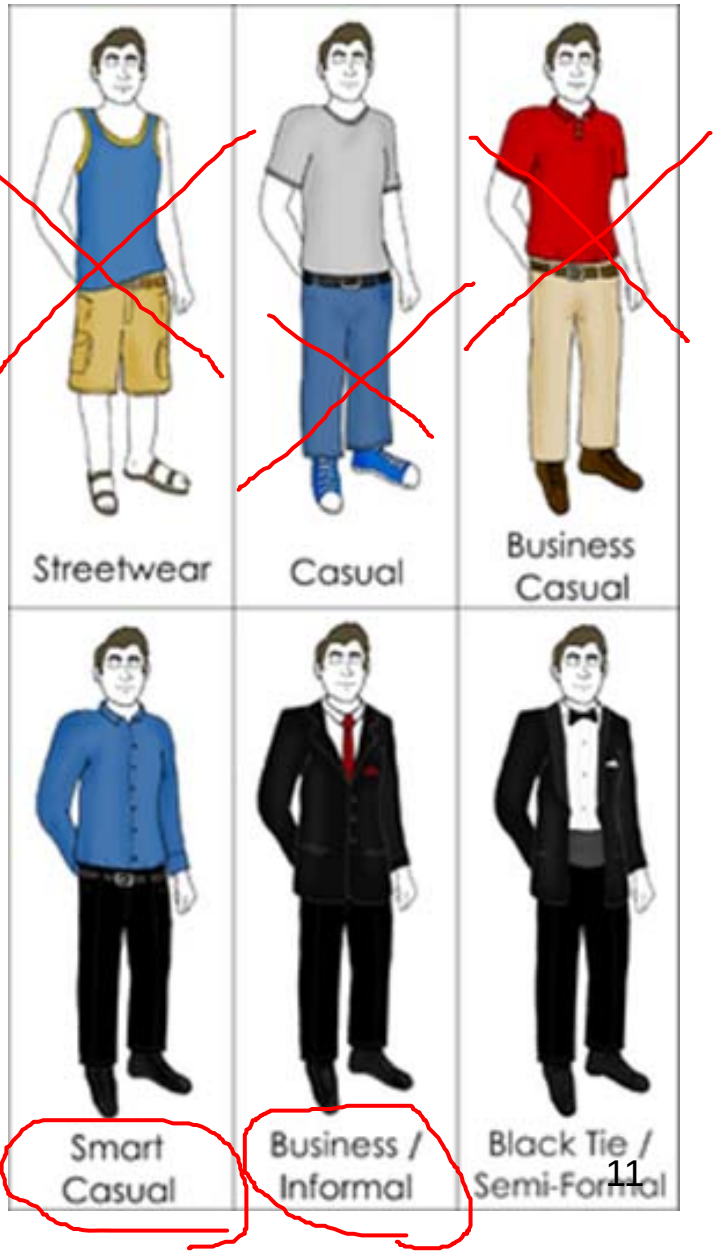
Biosand Filters - Timely process, Limited to the amount of use per day
Solar Distillation -Water bottles have to be present
Chemical Disinfection- Supply of chemical tablets must be present

Methods do not use a technical approach

Dress Code

- T April 17 Dress Rehearsal Presentation
  - **Business casual**
  - **Business**

- F April 20 EECS Day
  - **Business**



Body Language - Revisited

BASS/SCHULER entertainment

Team Presentation - Revisited

- Plan ahead and do practice, a lot.
- Smooth Transition from a presenter to another
- <u>Decide Position and Roles in advance</u>
  - how you will position yourselves
  - who will be where and
  - what they will do while another member is speaking?
- Make sure that
  - Everyone in the group is doing his/her share
  - Everyone performs well on his/her presentation part
- Q&A
  - Make sure you understand the question
  - Knowledgeable humility is the best ally