

EECS Day (Fri. April 12, 2024)

Preparation



**The journey is almost over,
and you'll jump soon**

EECE404 Senior Design II
Electrical Engineering and
Computer Science
Howard University

Instructor: Dr. Charles Kim₁

EE Day → ECE Day → EECS Day (from 2017) →
EECS Annual Capstone Design Day (from 2024)



- **1st EECS Day - 2017**
- **2nd EECS Day – 2018**
- **3rd EECS Day – 2019**
- *** 2020 – 2021 cancelled due to Corona Virus**
- **4th EECS Day – 2022**
- **5th EECS Day – 2023**
- **6th Annual Capstone Design Day**

Toward the Goal Line

Date	Activities
T 3/26/2024	<ul style="list-style-type: none"> Lecture on “EECS Day Preparation – EECS Day Presentation Slide Format”, and Demo set-up
T 4/2/2024	<ul style="list-style-type: none"> Lecture on Final Report Writing and Format
T 4/9/2024	<ul style="list-style-type: none"> Progress Presentation III – “Dress Rehearsal” with EECS Day Presentation Format
F 4/12/2024	<ul style="list-style-type: none"> The 6th EECS Annual Capstone Design Day: 8:00am – 3:00pm
T 4/16/2024	<ul style="list-style-type: none"> Lecture on Peer-Evaluation
T 4/23/2024	<ul style="list-style-type: none"> Last Class – (a) Wrap-up (b) Exit Survey



EECS Day Event Format (F) 4/12/2024)

**6th EECS Annual Capstone Design Day Schedule (2024) @
*Innovation Center***

8:30 – 9:00am: Registration and Breakfast

9:00 – 9:15am: Welcome and Overview (CEA Dean Anderson)

9:15 – 11:45am: Design Project Presentation (EE/CpE + CS)

12:00 – 1:00pm: Lunch

1:00 – 1:45pm: Keynote Speech

1:45 – 2:15pm: Project Demonstration

2:15 – 3:00pm: Awards

3:00 pm: Adjourn

3:15pm: **JUMP! (?)**



EECS Day Event Format (F) 4/12/2024

9:15 – 11:45am: Design Project Presentation (EE/CpE)

- 9:20 - 9:40 D2
- 9:40 – 10:00 PCC
- 10:00 – 10:20 Photon2
- 10:20 – 10:40 UAV
- 10:40 – 11:00 UGV
- 11:00 – 11:20 SLAM
- 11:20 – 11:40 Power
- Each team has 20 minutes
- 10 - 15 min presentation (running video clips helps)
- 5 - 10 min Q&A



EECS Day Event Format

1:45 – 2:15pm: Project Demonstration



- Active interaction with visitors
- Use computer or monitor screen as poster board
- Expect to entertain the visitors for 10 minutes

ECE Day Grading – by external visitors

- Grading focus/rubric
 - The project's problem/need and design requirements are clearly presented
 - Presentation slides, with legible texts and good visuals, are helpful in understanding the content
 - Presenters face the audience and speak professionally in confidence
 - **Mixed audience**

EECS Day Slide Format (10 - 15 minutes)

1. **Cover (1 slide) [00:00]**
 - Title and Members & faculty advisor & date
2. **Problem Definition (1 – 2 slides) [01:00]**
 - Background
 - Problem Statement
3. **Design Requirements (1 - 2 slides) [03:00]**
 - Refined Problem Definition
 - Design Requirements: emphasis on **constraints and rules and regulations**
4. **Solution Design (1 – 2 slides) [05:00]**
 - Explanation of the final solution design with schematics and diagrams
5. **Agile Implementation Process (5 - 10 slides) [8:00]**
 - Assigned/Completed tasks (sprint by sprint) for solution implementation
 - **Photos, screen shots, circuit diagrams**, etc, etc.
 - Testing of the integrated system
 - **Video clips**
6. **Conclusions (1 slide) [15:00]**
 - 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

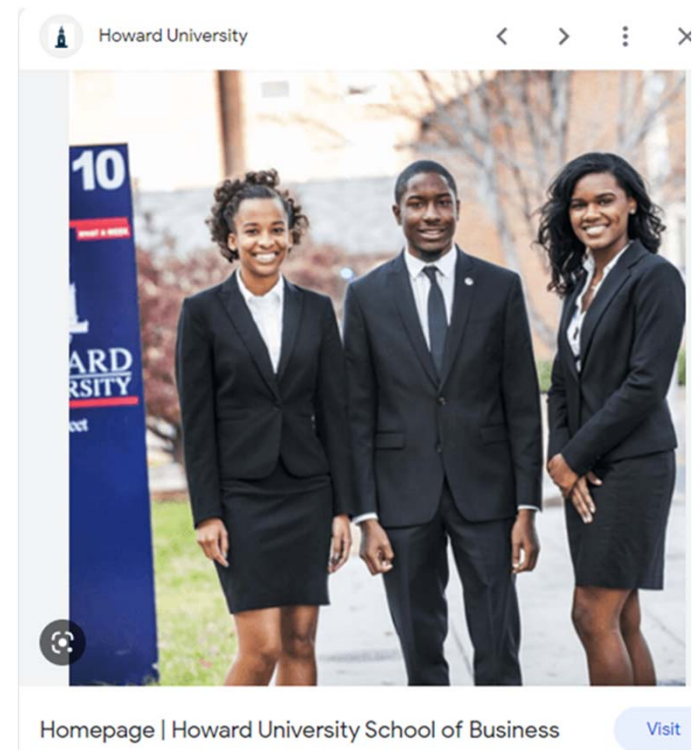
Team Presentation - Revisited

- Plan ahead and do practice, a lot.
- Decide Position and Roles in advance
 - how you will position yourselves
 - what they will do while another member is speaking?
- Make sure that
 - Everyone in the group is doing his/her share
- Q&A
 - Make sure you understand the question
 - Knowledgeable humility is the best ally



Dress Code

- (T) April 9 Dress Rehearsal Presentation
 - **Business casual**
 - **Business**
 - **Slide – EECS Day Format**
- (F) April 12 EECS Day
 - **Business**
 - **Slide – EECS Day Format**



Summary

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