

# Technical Presentations MCHE 201 – Spring 2019

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### Why should I care?



 If you can't communicate your ideas, they are worthless.

• Those that can communicate become bosses.

### **Questions to Ask**



What is the purpose of this presentation?

- Who is the primary audience?
  - Technical competence
  - Expectations
  - Language skills
  - Interests

**-** ...

Who are the customers and what do they want?

What's the purpose of this slide?

### What are we reporting?



- Present accomplishments/results
  - A design, prototype, device, etc.
  - New method, theory, or plan for solving a problem
- Do NOT present administration
  - We did this... Then, we tried that... Finally, we found...
  - Information on team meetings, etc.

### **Technical Presentations**



- Get to the point... "ta-da" moments rarely work
  - Say what you are going to talk about
  - Talk about it
  - Say what you just talked about

Basically same order as report.



- Title Slide
- Agenda
- "Main" Sections
- Conclusions
- Thank You

Basically same order as report.



- Title Slide
  - Introduce your project
  - Introduce yourself and your team
- Agenda
- "Main" Sections
- Conclusions
- Thank You



- Title Slide
- Agenda
  - What should the audience expect to see
  - Can cut for short presentations
- "Main" Sections
- Conclusions
- Thank You



- Title Slide
- Agenda
- "Main" Sections
  - Will vary by document type
  - For design presentations:
    - ◆Introduce the problem
    - ◆Overview of the design
    - ◆ Details of the design
    - ◆Support for its choice
- Conclusions
- Thank You



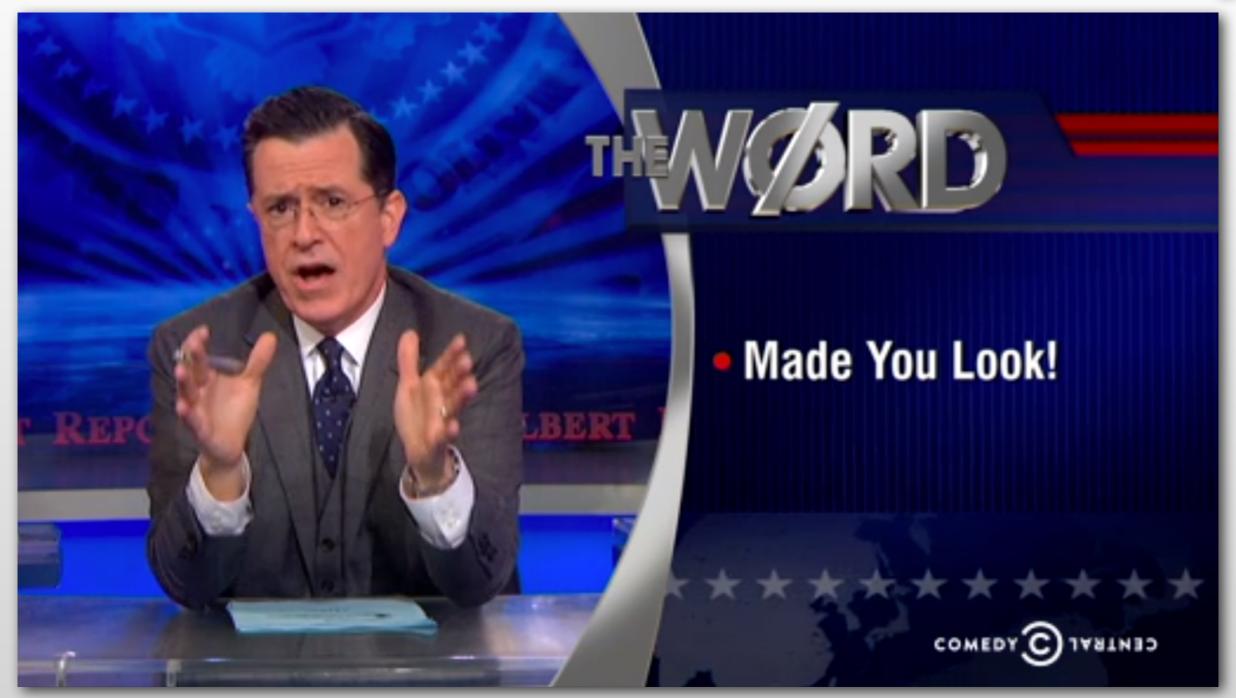
- Title Slide
- Agenda
- "Main" Sections
- Conclusions
  - Concisely summarize what was presented
  - No new information
- Thank You



- Title Slide
- Agenda
- "Main" Sections
- Conclusions
- Thank You
  - Acknowledge any sponsors
  - "Thank you. I'll be happy to answer any questions you have."

### The Slides Support You





He's talking directly to the audience...

... while the text supports his joke.

### The Slides Support You





He's talking to the audience.

The slides support his point, not make it.

### Slide Templates – the Content is the Star



#### A MICROSOFT DEFAULT THEME

I sure am wasting a lot of space on those fancy colors below.

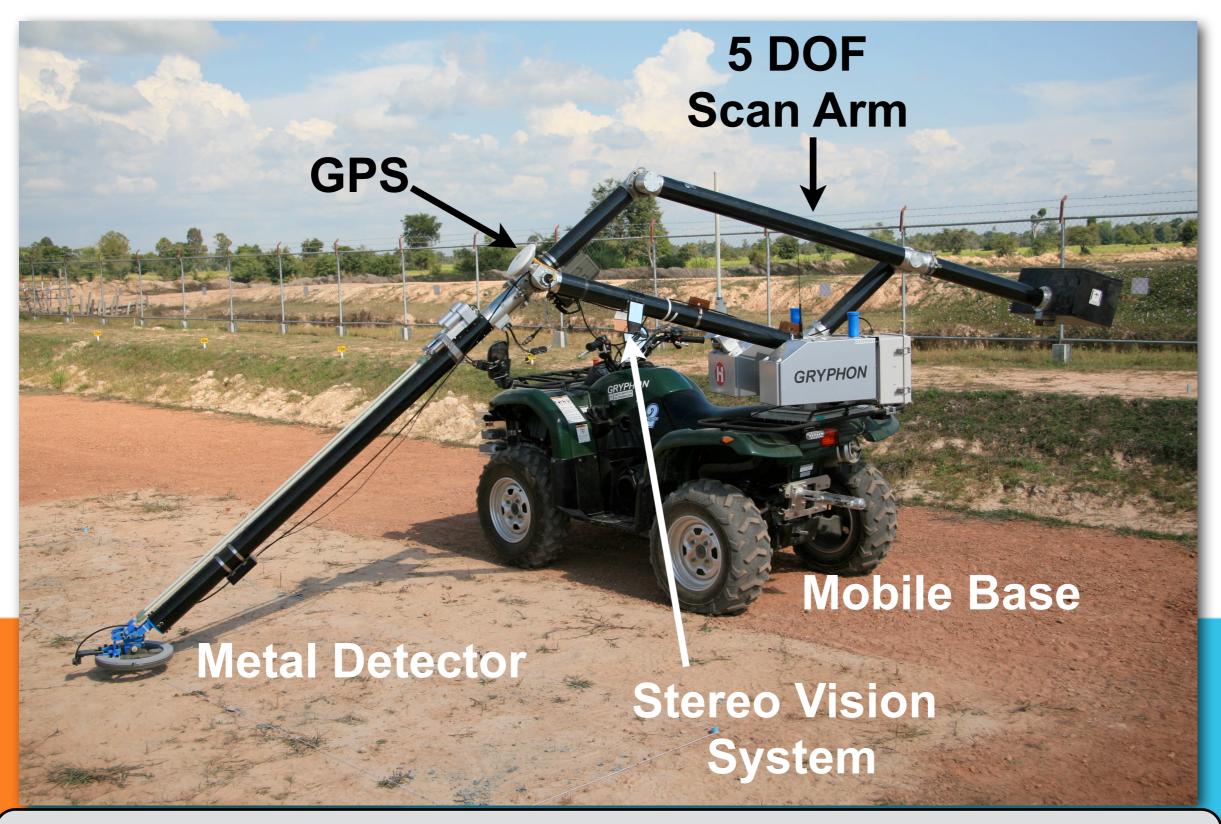
### Slide Templates – the Content is the Star





#### Why waste this space?

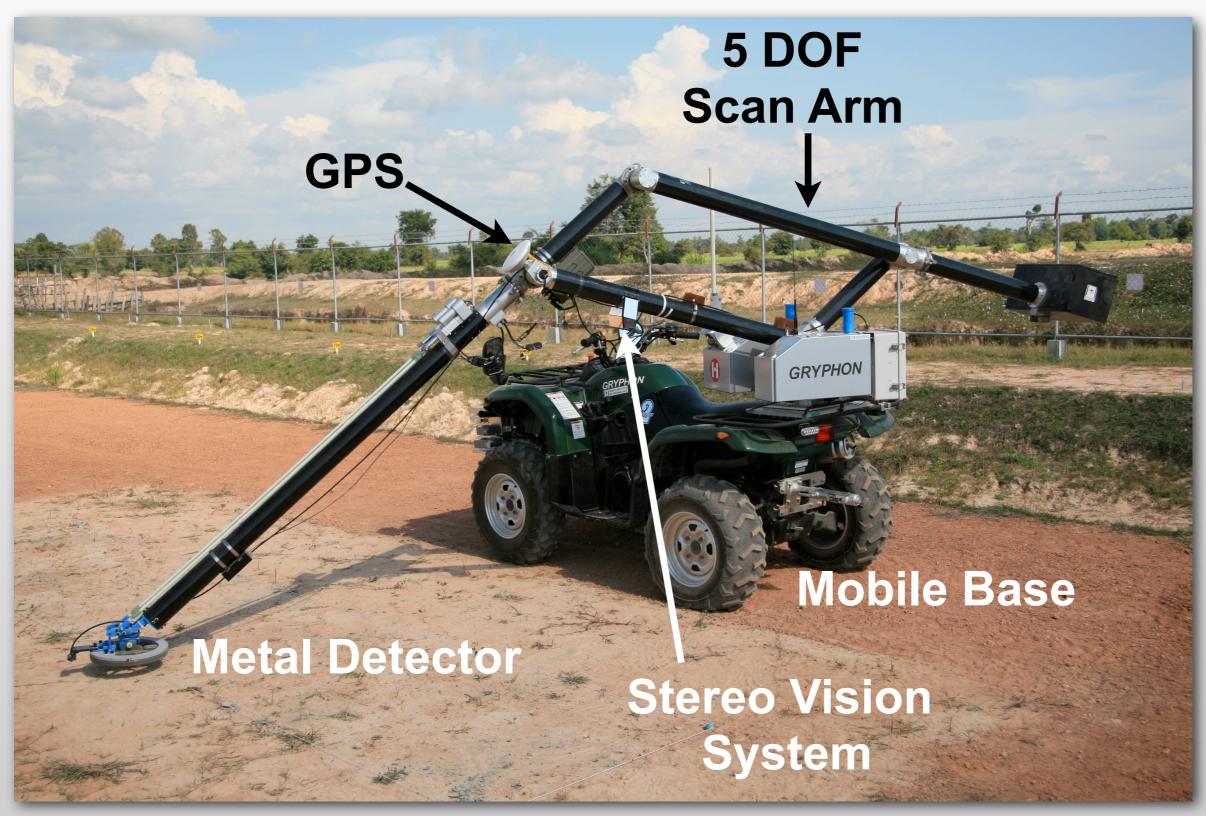
### A MICROSOFT DEFAULT THEME



The background here is distracting.

### GRYPHON





# How to Address Design Tools



- Concisely explain what the tool is
- Tell the audience what to look at
  - What's important?
  - Point to and/or highlight
- Explain why it's important

Note: You will likely need a "presentation" version

## **Project Timeline**



		Month											
Task	J	J	Α	S	0	N	D	J	F	М	Α	М	J
Conceptual Design	Т												
Refinement of customer needs and requirements													
Development of engineering specifications													
Functional decomposition													
Development of alternative concepts													
Evaluation of alternative concepts													
		1						ì					

Concept selec

#### **Prototype Cor**

Develop detai

Finalize manu

Finalize actua

Manufacturing

#### **Control System**

Develop high-

Develop/write

This is too small to read and too much information to process.

Implement supervisory controller								
Develop User Interaction for prototype system								
Design Performance Evaluation and Refinement								
Test of prototype subsystems								
Test of full prototype with "perfect" loading								
Test of full prototype failure modes								
Refinement of mechanical design								
Refinement of control system and user interaction								
Milestones								
Contract Signed	<b>♦</b> - Jı	une 10						
PhD student, Seema Mallavalli, Hired	<b>+</b>	- July 1						
First prototype subsystem test			<b>\Phi</b> -	Late-O	ct			
First full prototype tests				♦-Late	e Nov	<i>'</i> .		

### Latest Revision



	Month												
Task	J	J	Α	S	0	Ν	D	J	F	М	Α	М	J
Conceptual Design													
Refinement of cust. needs and requirements													
Development of engineering specifications													
Functional decomposition													
Development of alternative concepts													
Evaluation of alternative concepts													
Concept selection													
Prototype Construction													
Develop detailed design from selected concept													
Finalize manufacturing specifications													
Finalize actuator and sensor selection													
Manufacturing/construction of prototype													

Original Schedule
Completed
Change from Original Schedule

### Latest Revision



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Task	J	J	Α	S	0	Ν	D	J	F	М	Α	М	J
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### **General Presentation Guidelines**



- Use "clean" slide templates Your content is the star
- Avoid unnecessary animations
- You might need a separate set of figures for presentation
  - Bigger text
  - Less detail (an entire HoQ will not fit on a slide)
- Include slide number (for audience questions)
- This is too many words on a slide!!!
- Practice. Revise. Practice. Revise. Practice...
- See why you should avoid unnecessary animations?
- Let the audience know you are finished...



# Thank you.