



# ECE4007

## ECE Culminating Design Project

# PDR Presentation

2013 February 20 Wednesday







Sealed Rechargeable  
Battery  
**POWER PS SONIC**

MODEL PS-1220

12 Volt

2.9 Amp.Hr.



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# Deliverables

# Project Website



# Antigravity Project

## ECE4007L01 Dr. Smith

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### Technical Review Papers

George Burdell ([.doc](#) [.pdf](#))

Georgia Burdell ([.doc](#) [.pdf](#))

Billy Bob ([.doc](#) [.pdf](#))

Written Proposal ([.doc](#) [.pdf](#))

Intermediate Project Summary ([.doc](#) [.pdf](#))

PDR Presentation ([.ppt](#) [.pdf](#))

Final Presentation ([.ppt](#) [.pdf](#))

Final Project Summary ([.doc](#) [.pdf](#))

Final Written Report ([.doc](#) [.pdf](#))

Insert Photo Here



# Spring Break

March 18-22

You are welcome to work on your projects

We shall strive to have completed our  
PDR Presentations during the two weeks  
before Spring Break.

# Tentative 2013 Spring Senior Design: ECE4007A Lecture Schedule (EE Auditorium)

Week	Monday	Emphasis	Monday	Tuesday	Wednesday	Thursday	Friday
1	Jan 7	Form Teams	Introduction, Deliverables, Team Forming		Technical Review Paper: Bourgeois		
2	Jan 14	Form Teams	<u>ECE Career Fair</u> (no lecture)	<u>Career Fair</u> <u>IEEE S-PAC</u>	Labs, Proposals		
3	Jan 21		Holiday		Proposal Technical Details <b>Technical Review Paper Due</b>		
4	Jan 28	Proposals	Proposals, Specifications, Codes & Standards		Proposals: Bourgeois		
5	Feb 4	Proposals			<b>Proposals Due</b> & Prototypes		
6	Feb 11				Ethics		
7	Feb 18				Preliminary Design Review		
8	Feb 25		PDR: Bourgeois		<b>Intermediate Assessment</b>		<b>Drop Day</b>
9	Mar 4	PDRs					
10	Mar 11	PDRs					
11	Mar 18		Spring Break				
12	Mar 25						
13	Apr 1				Final Deliverables		
14	Apr 8		Final Presentation & Report: Bourgeois				
15	Apr 15				<b>Final Assessment</b>		
Dead	Apr 22	Demos & Finish Presentations				<u>Design Expo</u>	
Finals	Apr 29	Finish Demos & Final Reports			<b>All Due</b>		

## You are here

# Preliminary Design Review (PDR)

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Recommended Presentation Content	Proposal Report	Design Review Presentation Before Spring Break	Final Presentations Dead Week
1. Qualitative Project Goals (brief)	X	X	X
2. Quantitative Project Specifications	X	X	X
3. Background: State of the Art	X	audience relevant	X
4. Status	X	X	X
5. Schedule (GANTT or similar chart)	X	X	X
6. Budget	X	X	X
7. Results			X
Highlights:	Contrast candidate paths and commit	Status	Results with contrast to Proposal
Duration		Smith: <10 minutes	< 15 minutes

# Preliminary Design Review (PDR)

## Content Comments...

# General to Specific

- You cannot show your entire project at a fully detailed level of abstraction.
- You are the ones who select what specifics to show.
- Choose what is relevant to the point you are illustrating, & your audience.
- You are demonstrating your creativity.

# Presentation Styles

MTV

Versus

1950's TV News Broadcast



# Presentation Styles

Quick cutting between images,  
often with handheld cameras,  
is typical fare for your generation.  
(e.g. the contemporary *Bourne* movies)

This is maddening to many older folks.

The older folks are probably paying you.

# Preliminary Design Review (PDR)

Finish by Spring Break

Details specific to your Project Advisor and section

Graded by your Project Advisor

Some projects (e.g. externally sponsored)  
may present in different venues

# Preliminary Design Review (PDR)

## Common Industrial Practice

- Primary purpose is a thorough technical review
  - Convince whomever is funding your project that:
    - The design is sound
    - You are making reasonable progress
    - A favorable outcome is likely
  - Review specifications, particularly any changes
  - Give an in-depth review of the design approach and details
  - Review plan for demonstration and acceptance testing
- Other purposes:
  - Review project tasks and schedule
  - Present marketing and cost analysis if appropriate
- The PDR convinces your funding source to keep on supporting you
- An unsuccessful PDR outcome is project cancellation
- Should be optimistic but realistic
- Don't cover up problems!

# PDR Presentation Guidelines

- Presentation must be in PowerPoint (not a PDF)
- Every team member must give a non-trivial part of the presentation (several minutes)
- Your audience for the presentation is company management (including technical management) and engineering peers who will be evaluating your progress
- You need to convince management that your project is worthy of continued support and that any problems are understood and under control
- Your presentation should include **graphical information** such as block diagrams, screen layouts, flow charts, etc. and not just text (**like this slide**)

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- Should clearly indicate current project status

# Preliminary Design Review (PDR)

Christina Bourgeois will be visiting our lecture to discuss presentation issues.

# Practice

## Practice Prevents

- exceeding your time limit
- temptation to read from the screen
- anxiety, embarrassment, & shame



# Q&A

Repeat the questioner's question.

The best responses sound like enthusiastic replies to a respected peer. Authenticity is a winner.

Do not start waffling, babbling, crying...

Do not lie. Just, don't.

The result is a total loss of credibility.

If you do not know, it is acceptable to say gracefully:

*"...I do not know but shall find out and get back to you..."*

# Parts

Why, yes,  
Georgia Tech does accept donations.

Georgia Tech is a 501(c)3 organization  
which can provide a donation letter as  
evidence for tax purposes.

# Parts

Why, yes,  
Georgia Tech does accept donations.

But, who would donate anything to me?

Examples...

# Questions?

Go & work on  
your projects...



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