Mini Project Guidelines

The following guidelines have been compiled to assist you in preparing your mini project. Be creative and think outside of the box. This is an opportunity to exercise some creativity and have some fun. If you are looking for some good examples, I am fond of the <u>minute physics videos</u>.

Purpose: The project is an opportunity student to present some phenomenon or observation in the "real world" and connect it to what we have been learning in class. Your idea does not have to be a physics problem, provided you can link it to ideas we have learned about in this course. Be creative, and feel free to ask me for help if you need it.

Caution, the purpose of these video is not to reteach class materials, but to see how concepts from the course apply to the real world. Don't try to explain a simple harmonic oscillator, rather tell me (for example) how the suspension of a car works and draw the connection to what we learned about simple harmonic oscillators.

Presentation: You will need to create a short video, showing what you have found, and provide a short explanation, and then connect it to some ideas we have learned about in class.

If you use a video from the internet, please remember to give credit to the original authors.

Time commitment: These videos require several steps require brainstorming, planning, researching, creating (acting/narrating and filming) and editing.

I would suggest that you should brainstorm individually before meeting as a group, that was the group meeting is simply choosing your favorite topic and assigning tasks.

If you work efficiently, it should take each group member about half an hour to create the video, but you should not spend more than one hour each.

Video Description: Underneath your video, please add a description including:

- A detailed description of each group members contribution.
- Any bibliographic information, especially if you used a video animation photo that you didn't create yourself.

Deadline: You will be required to submit three mini projects (______, ____, ____). Your video will be submitted on ______.

Criteria	/10	Perfect	Passable	Poor
Link to topics		Video clearly highlights connections	Video overlooks or inaccurately	The topic is not linked to
covered in		between your topic and ideas from this	presents connections between your	anything studied in this course.
the course	/3	course.	topic and ideas from this course.	
Correct		Accurately explains the topic using	Gives some anecdotal information	Missing or incorrect
explanation		ideas explored in this course (and	about the science but doesn't show an	explanation of the science.
of the physics		possibly ideas from other science	understanding of the topic.	
	/3	courses too).		
Oral		Video presents the topic in a clear and	Video is difficult to understand and/or	Explanation is not
presentation	/2	understandable way.	scientific terms are used incorrectly.	understandable.
Interesting		Generates discussion with peers	Topic doesn't generate any discussion	Topic has already directly
/Creative		and/or it intrigues me.	or reaction from peers and/or interest	studied in class.
	/1		me.	
Group work		Group worked collaboratively to create	Group distributed tasks, resulting in	The group was unable to work
	/1	a coherent product.	disconnected ideas.	together effectively.

Grading: I will grade each project over the following week based on this rubric.