

Physics 380-001: Group Assignment

Due Negotiable

Task:

In a 10-20 minute video teach the class the physics behind assigned topic.

Constraints

- It has to be in a video format. Any format is possible (lecture, cartoon, music video, interpretive dance, etc)
- It has to convey the material.
- Everyone has to be involved.
- You have to be able to answer questions after the fact about the content of the video.

Grading

All videos will be shown in class.

Your grade will be broken down in the following way:

Topic	Sub Topic	Total [pts]
Physics [40]		
	Correctness	25
	Material (Did you cover the requested material)	15
Presentation [30]		
	Communication (Is your message coherent?)	20
	Video format	5
	Post project question	5
Group Work [15]		
	Project Map/Plan	10
	Teamwork (How did you work together?)	5
Individual [15]		
	Accomplish individual tasks	15

Note: if you are having a problem with your group, please come see me right away. You will be graded as a group, mostly.

Method:

Work in teams. Plan to meet regularly to discuss your topic and how to go about solving it. Team work is very important. It will make or break you at the next level. Treat this project as practice.

Time:

This project should be time intensive. Expect to work really hard on it. If each member of your team is working more than 20 hours on it, you might be doing too much work. (Note: When I say 20 hours, I mean actually working on it, not the time spent talking, playing games, etc – of course unless that is part of your project.)

Project Strategy

With your group, set up a meeting time outside of class to discuss your strategy. The project should include ALL of the following items:

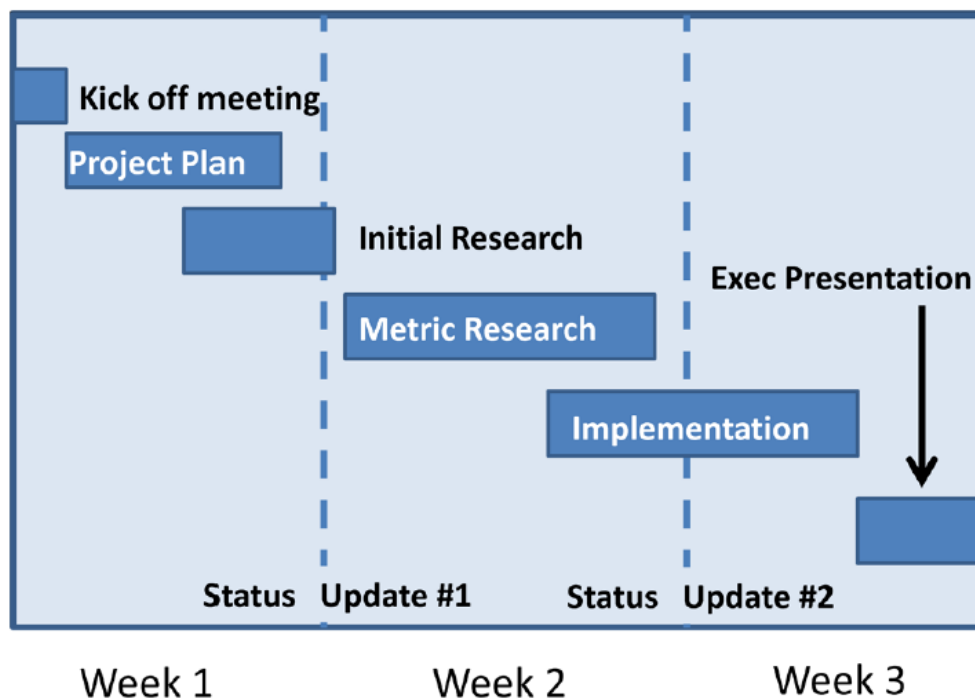
- A project map – Deliverable (PROJECT MAP) – Okay if hand drawn. See example.
- Assigned roles (if approach you decide to take) – Deliverable (PROJECT PLAN) - Okay if hand drawn, should include everyone's signatures. See example.
- Status update meeting I with all stakeholders (that means me).
- Research
 - Read text book sources
 - Read other text book sources
 - Read other outside literature if necessary
- Development of idea
 - Write out notes of the physics and math
 - Should look like homework assignments
 - Internally review the notes
 - Understand aims of project
 - What is easy? What is hard?
 - Meet to discuss the physics/math discussed in the notes
- Story boarding your idea
 - Develop a theme
 - Develop an storyboard of the podcast
 - Write a script
 - Review script
 - Edit script
 - Review script again
 - Finalize script
- Status update meeting II with all stakeholders (that means me).
- Make video
 - Act out each scene in the video

- Tape it through to the end
 - If you need help here, we might be able to get people to film your video
- Edit video
 - If you need help here, we might be able to get people to edit your video
- Tape any additional scenes
- Edit video
- Finalize video
- Submit it

Notice how the video is important but it is only 1/8 of what is required. The project leading to the video is just as important as the video itself.

Project Map

The Project Map outlines the major phases of the project lifecycle: Build a plan, Track and manage a project, and Close a project. Here's example from a project I worked on as a consultant in a startup company:



Project Plan

A project plan is a detailed list of tasks that supports the project map. The plan tends to focus of the order things will happen, who will do them, and by when. A portion of a made up example for the project map listed above is as follows:

Phase	Task	Who	Complete Date
Kick off	Attend Kick off meeting	All	1/1
	Write summary of kick off meeting notes	Steve	1/2
Project Plan	Draft project plan	Matt	1/2
	Review and update project plan as a group	All	1/3
	Send project plan to stakeholders	Matt	1/3
	Finalize project plan based on feedback	Matt	1/5
Init. Rscrh	Identify Company peers	Sally	1/4
	Identify industry leaders	Matt	1/5
	Identify best practices of company peers	Steve	1/5
	Identify best practices of industry leaders	Sally	1/5
	Meet to discuss landscape of industry	All	1/6
	Summary of industry landscape meeting notes	Sally	1/6
General	Agenda for client status update	Matt	1/6