# Due Date: 14A Section #\_38\_\_\_\_ Team # \_\_13\_\_\_\_

# Milestone 7 - Beta 1.0 Demo Version

*(This problem is to be completed by your* ***team*** *and contributes to your project grade****.****)*

The next phase in the development of your team’s nanoHUB simulation suite is to begin adding functionality to your GUIs. With your layout and variable inventory in place, your team will now prepare to demonstrate a Beta 1.0 version of your simulation suite. For this milestone, your team will upload to Blackboard and demonstrate in class 14A a ***functional*** simulation suite to the instructional team. Functionality at this stage means each GUI must be able to take in some user input and respond in an appropriate fashion. There may be some missing simulation elements, but the framework should be in place and functional for all screens.

**Looking ahead to Milestones 8 & 9.** The more functionality you can add for M7, the easier your work will be for M8 (complete demo) and M9 (final product). You are encouraged to get as far as you can for this milestone – the more you have working, the better feedback we can provide! As you work, be sure to save each new iteration in a separate folder for version control.

1. Save this document to your **NANO\_PROJECT** folder and resave as **M7\_Beta1\_*sec###team##*.docx.**
2. **M7 Prep**

In your NANO\_PROJECT folder, create a new VERSION\_## folder. Copy the .m and .fig files from your most recent version into this folder. Use these new copies when working on this milestone and, if needed, create additional VERSION\_## folders as you work. Do not overwrite or erase old versions and be sure to share any new versions with all other members of your team!

1. **M6 Review**

Review feedback received on M6. In the answer sheet, respond to these two questions:

* ***In your own words***, what feedback have you received on M6?
* How are you addressing this feedback in M7?

1. For milestone 7, your team will add all functionality to your GUIs as described below:

* Your simulation suite MUST launch when **nanohubGUI\_sec###\_team##** is typed at the MATLAB Command Window (when your Current Directory is set to your **NANOHUB\_PROJECT** folder). A window with your simulation suite title, your section number, your team number, your team member names, and pushbuttons must appear on the screen.
* All navigation buttons on all GUIs must work as intended.
* The simulations being developed by each team member must have at least some functionality.

**It should be clear which team member is responsible for which GUI. This must be accomplished in a small Static Text box on each GUI layout AND via comments in your GUI code.**

The following template text MUST appear immediately below the function definition line of all GUIs.

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

% ENGR 13200 Spring 2015

% Programmer(s) and Purdue Email Address(es):

% 1. Name, login@purdue.edu

%

% Other Contributor(s) and Purdue Email Address(es):

% 1. Name login@purdue.edu

%

% Section #: Team #:

% Assignment: nanoHUB Simulation Suite

%

% Academic Integrity Statement:

% I/We have not used source code obtained from

% any other unauthorized source, either modified

% or unmodified. Neither have I/we provided access

% to my/our code to another. The project I/we am/are

% submitting is my/our own original work.

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* All windows launched by your program must have a means of exiting gracefully without shutting down MATLAB. The only option for the user should not be the X in the upper right corner of each window.
* All citation GUIs must be in APA format and complete.
* All help and/or instructions GUIs must be properly linked and populated with relevant help information.

Be sure to adequately comment all code that your team has developed within all .m files. **Your team could be asked during the demo to open any one of your .m files.**

1. **Zip your most recent VERSION\_## folder (the extension must be .zip) then rename the zipped folder M7\_Beta1\_sec##team##.zip**; this folder must contain all .m and .fig files as well as **M7\_Beta1\_*sec###team##*.docx**. Upload the zipped folder to Bb.The contents of this zipped folder should be relevant to this milestone only and include only current .m and .fig files. DO NOT include .m or .fig files from previous versions.

Email your zipped folder to all team members. ***At no time during this project should only one member of your team be in possession of project documentation.***

F. **Teammate Contributions to M7**

1. Assign a recorder to compile the list of individual contributions to the team components of M7 in the **Design Worksheet**.

2. *Individually*, write your *own* short specific task-oriented description of what you contributed to M7. As a reminder, it would be an example of **Academic Dishonesty** if you write the contributions for another Teammate, so please only write your own contributions. Use the sentence stems provided in the answer sheet to help structure your description. Send your description to the recorder.

Keep in mind these guidelines:

* Each team member **must** write his/her ***own*** contribution description and provide it to the recorder for your team to compile into the team’s milestone document.
* If you did not contribute to this milestone, then write “I did not contribute to this week’s milestone” and send to the recorder.
* If one of your teammates did not send a contribution description and/or did not contribute to the milestone, then the recorder should leave it **blank**.
* If you feel that one of your teammate's descriptions is not accurate or a teammate did not contribute this week, please send an email to your instructor so we can help resolve.

Share this **Design Worksheet** with all of your teammates. At no time during this project should only one member of your team be in possession of project documentation.

G. **Final Report – M6 Summary**

1. Open your **FinalReport\_sec##\_team##.docx**

2. In 2 paragraphs, 300-450 total words, for ½ page total, summarize your work from M6. DO NOT include copies of tables or figures. DO summarize key outcomes from the milestone, any feedback you collected on M5, and how you responded to that feedback. Write about the big picture, with only the key specific information.

Make sure you follow these instructions on what to include in the Milestone Summaries.

This task of writing a Milestone Summary will occur with each Milestone. The compilation of these paragraphs will become your Final Report which is due in week 16.

***Deliverables:***

* In the same submission, upload 1 copy of this week’s **Team Meeting Worksheet** and **M7\_Beta1\_sec##team##.zip**

**DESIGN WORKSHEET**

|  |
| --- |
| **Our team’s Direct User is: The fabrication division of a quantum dot solar cell manufacturing company.** |

Complete a new **Team Meeting Worksheet**

B. **M6 Review**

***In your own words***, what feedback have you received on M6?

We received good feedback on M6, there were a couple of minor cosmetic issues and non-conformance issues that were observed.

How are you addressing this feedback in M7?

We have corrected the errors to the best of our abilities.

B. **Teammate Contributions to M7**

***Individually***, write your *own* short specific task-oriented description of what you contributed to M7. As a reminder, it would be an example of **Academic Dishonesty** if you write the contributions for another Teammate, so please only write your own contributions. Please use the following stem sentences to help structure your description:

1. (**Broderick Schwartz**) contribution was:

* I completed these tasks: I coded several of the auxiliary GUIs as well as Var\_Plot\_schwarb. I did most of M7 and assisted in the help GUIs and programming buttons. I also wrote the final report update.
* I was assigned, but did not complete these tasks: none.

2. (**Apoorva Kharche**) contribution was:

* I completed these tasks: I did a large part of the behind the scenes coding and function creation to make the GUIs work as well as creating ndim\_plot\_akharche and assisting in the formatting of several others.
* I was assigned, but did not complete these tasks: none.

3. (**Yash Shah)** contribution was:

* I completed these tasks: I completed programming the Print\_Recipe\_shah213 GUI along with the associated help file Print\_Help.
* I was assigned, but did not complete these tasks:

4. (**Rashid Sarwar**) contribution was:

* I completed these tasks: none.
* I was assigned, but did not complete these tasks:
* **Note To Grader:** Rashid did not contribute in any way to M7 and has been uncommunicative in group communication. He has also been absent from the last two classes and the team meetings without informing us of his whereabouts and without explanation.

C. Write **M6 Summary** of your **Final Report**