**Alpha/Omega Lab Project Plan**

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This is a guideline to help you and your supporting instructors, TAs, and SAs determine if your plan for the semester is well-defined and feasible. You **must fill out this today** and submit it to Gradescope by the beginning of the next lab. YOU WILL BE ASKED TO ITERATE and resubmit at least two more times this semester. You CAN CHANGE YOUR PLAN. It’s part of the process of learning. It will get better. See the example Project Plan below for more details on what is expected. A general overview of what is expected for your lab submissions can be found on the course website under Alpha Experiments - Omega Lab Explorations.

# Choosing Lab Type

|  |  |  |
| --- | --- | --- |
|  | **Do you plan to do an Alpha Experiment?**  Write “Yes” or “No” below if you intend to do the guided design project at the end of each lab | **Do you plan to do an Omega Exploration?**  Write down the project you plan to complete from the Omega Explorations list in the corresponding lab document. |
| Lab01: Basic Analysis and Engineering Practices |  |  |
| Lab02 Part A: Linear Systems and Beyond… |  |  |
| Lab03: The Signals and the Noise |  |  |

# Important Details for your Plan

## Trainings, Visits, and Access to Labs

**Please check all of the trainings or visits or access you think you need if you are doing Omega Explorations:**

|  |  |  |
| --- | --- | --- |
| **Checkmark with solid fill** | Training, Visits, and Access | Purpose for your Project |
|  | **I plan to use the Mercer XLab, I need access.** |  |
|  | **I plan to schedule a visit for the clean room (can also be done as part of an Omega Exploration for Lab 02).** |  |
|  | **I plan to schedule a tour of EMPAC.** |  |
|  | **I would like to access other resources on campus that are not listed here.** | Resource:  Purpose: |

## Goals and Objectives

*Outline your* ***goals****,* ***team member roles with names****,* ***deadlines*** *for at least Lab01. Try to fill out as much as you can for the other Labs so the TAs and UGSAs can give you advice.*

**Lab 01** (Date: )

**Lab 02** (Date: )

**Lab 03** (Date: )

**Reason for update (if applicable)**

## Parts List (Omega Explorations only)

## List an expected number of parts you will need that are not in your parts kit. List the cost of parts you want to purchase.

**What potential issues do you foresee with this design project?**

**What skills and concepts do you need to learn to do this project?**

**What is your plan if this design does not work?**

# TA/SA/STUDENT “Is this plan right?” Checklist

A TA or SA must check each of these items to pass the plan. Be prepared to answer each of these questions with justification. This will be done via Gradescope.

☐ Has a lab type (alpha or omega) been selected for each lab? Has a project topic been chosen for all indicated omega explorations?

☐ Are project goals or milestones (complete Part A, for example) listed for each lab?

☐ Are team member roles (analysis, simulation, Part A, Part B, etc.) assigned to team members for each lab?

☐ Are deadlines for each milestone listed for the next lab? Are the deadlines reasonable?

**Team Signatures (online via Gradescope)**

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**TA or UGSA Signature (online via Gradescope)**

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