Midterm Reflection and Planning: Capstone Design (Engn 379), winter 2021 (Due date: 5pm Sunday 28 Feb 2021)

The purpose of this midterm reflection and planning is to take stock of what has been accomplished and what work remains to be done in order for the Mercury Challenge competition ready robot successfully cross the metaphorical and literal finish line. In doing so, carefully consider the feedback received following the technical design review; you should address each point accordingly in the items below. It is worth reiterating: constructive criticisms are solely intended to *help* the team and the project achieve success!

1. Identify (up to) 3 of your subteam's major project accomplishments during winter term thus far.
2. Clearly state what your subteam needs to get done in order to get the robot across the finish line: List all action items/critical tasks remaining in order to complete your team's design development.
3. For each item enumerated, clearly indicate the date by which you will complete the task. These **dates must be no later than the end of the 9th week of the term, 19 Mar 2021**. This deadline is set because the team collectively needs time to run the course, refine, then iterate a few times.
4. Identify and list team interdependencies: what information from what other team do you need to make design decisions and complete development of your (sub)team's design aspects? For each item enumerated, clearly indicate the date by which you must receive this information.
5. Dependency map and matrix: Make a single team-wide dependency matrix and mapping, pooling all team's responses to 3 (see next pages).
6. Timeline/roadmap: Chart your course through the next few weeks. Clearly indicate key dates by which you will accomplish each action/critical tasks identified in 1 and 3 above.
7. Make a team-wide Gantt chart (or roadmap otherwise) summarizing the timeline and anticipated progress waypoints. In doing so, recall that 19 Mar 2021 is the date by which the first full robot prototype must be complete, insomuch as the team can run meaningful trial runs through the course. The observations and results of these trails will be crucial to guide further develop and refine the design.

Summary of what to submit:

1. Individual teams: submit a document with responses addressing 1-4, 6.
2. As a class: submit a document with a collective, single response for 5 and 7.

MARCH 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	1	2 No classes – winter break day	3 No classes – winter break day	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19 ***Robot Prototype v1 Complete***	20
21	22	23	24	25	26	27
28	29	30	31	1	2 ***Robot Prototype v2 Complete***	3

Live course run trials & refine →

APRIL 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1	2 ***Robot Prototype v2 Complete***	3
4	5	6	7	8	9 ***Robot Prototype v3 Complete*** Last day of classes	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1