Individual Completion Plan

30% of your overall grade - Individual Submission

Due Feb 10th, 2023 by 8pm EST on LEARN as a single PDF document.

3 pages maximum + references and appendix

Individual Completion Plan /30

Every team member should make a technical engineering contribution to the course project. That means everyone should do one, or a combination, of the following things:

A. apply advanced level knowledge gained in engineering courses from your degree in the form of analysis, modeling, decision making, or calculations.
B. applied a scientific approach to testing and evaluation of design prototypes.
C. used the tools of engineering to develop prototypes or designs.

Document your strongest technical engineering contribution(s) while addressing the following components:

0.5 page:
Nature of Contribution: What is the nature of your contribution? Describe the contribution in reference to the basic definition of Engineering as “applied science”. Why is this a Systems Design Engineering contribution?

1.5 pages:
Plan: What effect will this contribution have on the project? What aspect of the project will it contribute to and how will you complete the work. What is your specific plan?

1 page:
Verification/Evaluation: How will you know you did the work correctly? How will you verify/evaluate your work? Provide specific approaches and methods you will use to ensure the Engineering accuracy and quality of your work.

Include references as required.

Appendices are allowed, but shouldn’t be used to pad the page count. Any important content that you want me to read/see should be in the main body.

Grading:

Nature of Contribution: /5

Better submissions will:
- describe directly and specifically how your contribution can be understood as applying science at an advanced level.
- connect the contribution to courses or discuss where specific engineering methods were developed.
- effectively communicate the ideas in a professional tone.

Plan: /15

Better submissions will:
- provide a viable and detailed plan for how the Engineering contributions will be completed within the time frame of the course.
- specifically document the plan and contribution through text and graphics.
- effectively communicate the ideas in a professional tone.
- include enough detail to allow the reader to understand how this contribution will impact the final designed solution at the end of 462.

Verification/Evaluation: /10

Better submissions will:
- provide specific evidence and discussion of how the application of engineering will be done correctly.
- specifically document the evaluation/verification approach through text and graphics, while referencing appropriate sources.
- effectively communicate the ideas in a professional tone.

Total: /30

Missing components = 0%
U = 40% - Unsatisfactory (clearly below standard for a 4th year level SYDE student)
M = 50% - Marginal (meets minimum expectations)
S = 60% - Satisfactory (demonstrates basic competence for the project undertaken)
G = 70% - Very Good (good demonstration of engineering knowledge and design skills)
E = 85% - Excellent (excellent work, above average design skills and real insight into the problem)
O = 100% - Outstanding (showcase worthy work, well above expectations)