Guideline for the End-of-Semester Student Presentation (Presentation #3)

(the number in the parenthesis shows a suggested number of slides on each topic)

Slide 1 (1): Title page
- Project Title
- ME195B
- Group members' names
- Instructor's name
- "Mechanical & Aerospace Engineering Department"
- "San Jose State University"
- Date

Slide 2 (1): Outline
- Motivations
- Literature review and/or Market Survey
- Objectives and Specifications
- XX Design and XX Methodologies
- XX Simulation Results
- Conclusions
- Future work

Slide 3 (3): Motivations and Backgrounds (Why do it, what is its significance/impact)

Slide 4 (4): Literature review (other people's similar work, disadvantages/advantages)

Slide 5 (2): Objectives and Specifications (What you will do, What to expect uniqueness of your project, and specifications that define the parameters and performance of your final product – e.g. dimension, speed, weight, response time, operating condition, accuracy etc.)

Slide 6 (5): Initial and final designs (you can talk about your different designs and how you reach your final design with graphics using computer drawing tools, no hand drawings; key components design or selections)

Slide 7 (3): Theories and physical principles behind your designs (with equations, mathematic models, calculations, simulations, etc.)

Slide 8 (3): (If applicable) Electronics -- e.g., circuits, microcontroller, sensors, control systems used in your product (how do you design, select, test, and tune them to meet your need)

Slide 9 (3): Provide descriptions for your simulations such as boundary conditions, scenarios etc. and simulation results and system performance analyses (using contour plots, curves, data, tables etc.)

Slide 10 (3): Prototype / Proof-of-concept – building, assembly, challenges.

Slide 11 (1): Video show (all groups need to show your working device in video)

Slide 12 (1): Conclusions (Technical conclusions on how your final design meets your specifications and objectives; comment on which things work or don't work)

Slide 13 (1): Valuable experience gained from ME195A&B and challenges

Slide 14 (1): Future work/ improvement

Slide 15 (1): References

Slide 16 (1): Acknowledgment (sponsored company/organization, individuals, etc.)

A total of 20-22 minutes presentation, plus 5 minutes questions.

Dressing Code: Formal

Notes:

(1) The number in () means the maximum recommended number of the slides for that title.
(2) When preparing your slides, please be specific for each title of your slides (e.g., indicated by XX) and avoid using generic titles. For example, use "Multi-finger Robot Design with Rotary Driven Mechanism" instead of a genetic title "Design and Methodologies".

Recommendation: upload your final presentation slides (with links to the videos and simulations) to your laptop prior to your presentations – just in case anything happens. Also prepare a 2nd laptop for presentation in case the first one has issues