

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

- 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 Test, Results, and Prototype
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 (4):** Fabrication, assembly, integration, and/or interface and control.
- Slide 10 (5):** Prototype testing results and performance analyses (using curves, data, tables)
- 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 product meets your specifications and objectives; 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** (see next page)

Note:

- (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 generic title “Design and Methodologies”.

Recommendation: upload your final presentation slides (with links to the videos and simulations) to your instructors’ laptops prior to your presentations – just in case anything happens.