



UNIVERSITY OF  
SOUTH FLORIDA

A PREEMINENT  
RESEARCH UNIVERSITY

# **EGN 3000L Foundations of Engineering Lab**

## **Project Showcase Presentation Guidelines**

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## Presentation Guidelines

Each PowerPoint presentation must include:

- A **Cover slide** that displays the course name, group members, team name, the date, and the project title.
- An **Overview slide** that gives a bulleted summary of what slides are in the presentation.
- A Motivation slide to address the question of why the work is important. Why should the audience care to listen?
- An **Entrepreneurship slide** that presents the group's value proposition. The last slide from the entrepreneurship assignment or an updated slide can be used. Slide must highlight the actual product cost.
- 3-5 slides that present the final **design, product development, and engineering technology**.
- A **Conclusion slide** that provides a bulleted summary of significant points presented.
- A **Recommendation slide** that summarizes the team's recommended activities for future work.

## Design and Product Development Slides

- Each group should discuss their design process from concept to final design with respect to customer needs and engineering specifications.
- Discuss any design optimization implemented.
- Discuss the group's fabrication process and materials used for the enclosure, chassis, etc.
- Address the time required to assemble product. Will the parts fit into a 6" x 6" x 6" storage box except for the breadboard?
- Use properly formatted figures and tables with descriptive labels.

## Engineering Technology Slides

- Mention the type of “follower” robot built. Briefly describe the robot’s programming scheme.
- Demonstrate how the robot operates by playing a previously recorded video. Copy and paste a link to the video to the slide. Videos presented during the showcase cannot exceed 45 seconds. If recording exceeds 45 seconds, only play the portion that shows the robot’s operation.
- Create a table that summarizes the performance and specification of the product. Highlight the standard operating condition of the robot.
- Use properly formatted figures and tables with descriptive labels.

## Team member roles and responsibilities

It is expected that each team role will have the following responsibilities during the project showcase presentation.

- Project engineering lead will be responsible for the cover slide, overview, motivation, and entrepreneurship slides.
- Design lead will be responsible for presenting the group's design process to include design optimization steps and final candidate design.
- Product development lead will present the fabrication and manufacturing process.
- Software lead will present the core technology to include a video link demonstration of the functional robot.
- Testing lead will present the product specification, conclusion, and recommendation slides.