

1 Presentation

During your presentation you should address the following:

1. (10%) Application, task, and background
2. (10%) Robot model and simulation environment
3. (25%) Controller architecture
4. (25%) Trajectory generation
5. (30%) Results

2 Final Report

The final report should consist of a short paper no longer than 4 pages and written in the style of a conference paper. The manuscript must be prepared using the [IEEE conference template](#), either using Microsoft Word or \LaTeX , and should include the following sections:

- a. **Abstract.** A single paragraph summarizing the paper's content, including a concise introduction of the topic, outline of the major results, and summary of the conclusions.
- b. **Introduction.** This section should provide context for the project and include a summary of related work. Make sure to answer the following: Why is the problem interesting, what question does your project aim answer, how is it challenging and what related work has been done before?
- c. **Methods.** Here you should provide a detailed description of all the techniques used to generate your results. Include a description of the robot, task, and simulator, and supporting figures. Provide details of the algorithms used to complete the task with visual aids (e.g., block diagram of the controller).
- d. **Results and Discussion.** Present and discuss the results of your project. Include figures to support your results. Provide context and interpretation.
- e. **Conclusion.** Restate your research question, the methods used, and your major findings. Contextualize your results in terms of what has been previously done.
- f. All code must be included in an appendix and also submitted as `.m` files.

Your final report will be graded as follows:

1. (15%) Clear and organized presentation
2. (20%) Problem description
3. (25%) Solution (methods) description
4. (25%) Results description including supporting materials
5. (15%) Overall difficulty