

Fall 2021 | MECH 6318
Engineering Optimization– Prof. Jie Zhang
Final PROJECT

Final Group Course Project Assignment

There will be a final group project to design and optimize a system, including MATLAB codes and a full report. It is expected that each team member will spend 60-70 hours on the project (Team Hours total: 120-140 hours).

Project Teams

Each group has 2 or 3 members. Students are free to decide who their teammate will be. The groups need to be decided and names are required to be submitted to the TA on or before **10/22/2021**, and no changes will be allowed after this date. All students in the group will be expected to contribute equally to the project. Team members may specialize in different components of the project, but every team member should be able to speak with confidence about all aspects of the project.

Formatting

Your final project report should be completed in the IEEE Transactions format, with a maximum page length of 8 (two-columned) pages. You can download a Microsoft Word or LaTeX template at:

https://www.ieee.org/publications_standards/publications/authors/author_templates.html.

References should follow the IEEE reference styles indicated in the template. It is recommended that you utilize a reference management program, such as EndNote, Bib, Mendeley, or Zotera.

Important Dates and Submission Procedures

1. **Project title, group member, and 1-page abstract: Due 10/28/2021.**
2. **Literature review is due on 11/04/2021.**
3. **Final presentation**, each group will need to give a 5 minutes presentation in class on **11/30/2021 or 12/02/2021. Submit your presentation file to TA by 11/30/2021.** The name of the PPT file should be “**group number_last name 1_last name 2.ppt**”, e.g., “**01_Zhang_Liu.ppt**”.
4. **Final report and codes** of the project need to be submitted by Monday (**12/06/21**) for final evaluation. The report should be submitted in PDF format, and the file name should be “group number_last name 1_last name 2.pdf”. The codes should be submitted with a .zip file, with the name of “group number_last name 1_last name 2.zip”.

Project Grading

Your final project grade will be based on three components: your final report, codes, and project presentation. The final report will account for 50% of the numerical score, the project presentation 30%, and your codes 20%.