

Physics 259 Design Project Report

This report is a full write-up of your final project lab. From this report, a reader should be able to build the project, understand how it works, have an idea of how long it takes to complete the project, and have some reference plots to compare with along the way. The report should be approximately 15 pages (12pt, 1.5 spacing), though this can vary depending on the size of diagrams and scope traces included.

The report should include:

- Items from your initial proposal:
 - Short description of the project
 - Component list, costs, suppliers
 - Timeline estimate, such as a Gantt chart, for the project
- Diagram(s) of the circuits involved, along with an explanation of how they work
 - Projects with several subsections should have each subsection explained, along with how these integrate together to form the final project
 - Explanations can involve calculations of operating parameters, such as oscillation frequencies, filter phase shifts, etc, where appropriate
 - Try to be concise but accurate in your explanations.
- Any needed sketches should be clearly drawn and labeled.
- Scope waveforms ideally should come from screen captures, but can also be redrawn carefully if preferred.
- Fits to the data should be included as needed. Don't forget to report the uncertainties on the fitted parameters and the quality of fit (just like you've been doing on your labs).

- The final report is due Monday, Dec 3 along with your Lab Book.