

ECP 342—Request for Proposal(RFP) for Transmitter for Optical Link Project

For this assignment, due with your final Lab report (Lab 5), you will write a three- to four-page proposal on a real-world application for the optical link **transmitter**, based on Labs 3 and 4 of the semester-long optical link project. The optical link transmitter should meet the specifications given in Table 1 of the “Optical Link” project manual. ***One proposal per team, please.***

Project Schedule

- *Thursday, November 16:* Brainstorm possible applications for the transmitter.
- *Thursday, November 30:* Bring to class completed worksheet & printout of rough draft of proposal for peer editing
- *Week of December 4th:* *Conferences on Lab 5 & proposal*
- *Friday, December 8:* Submit final draft of proposal on BB by 5:00 PM this day

Audience and Occasion

Your audience for this proposal is Professor David Kotecki. He has issued a *call for proposals* for the development of creative applications for the transmitter module of the optical link project. Thus, for this proposal, you must choose, research, and propose a particular application for your transmitter. Examples of applications include the following possibilities:

- Security (e.g., IR trip wire)
- Health (e.g., blood oxygen measure)
- Lighting for photography (e.g., IR lighting)
- Optical data remote

Proposal Outline

Your proposal should include the following parts:

- Title
- Contact information
- Abstract
- Introduction (to proposal and overall project)
- Background (a needs section, based on literature review)
- Proposed work (circuit topology, supplies, inputs/outputs, upper limits; features/benefits)
- Preliminary results (Design/simulation accomplishments)
- Team qualifications
- Cost analysis
- Conclusion
- References

Other Considerations

Be sure to use principles of good technical communication related to organization, word choice, formatting, and integration of visuals. You might include a functional block diagram, as well as circuit schematics and simulation graphs. Be sure to introduce and analyze the cost analysis tables. You should be able to use a LaTeX template for your proposal.