

Name:

Wireless Optical Coms

Today's class we'll build two wireless optical "communications links". We'll use two sources, an LED and a laser diode and compare the two links. Using an assortment of optics, you'll have to figure out how to get the strongest signal down the length of the hallway. You'll cover communications more in classes like EE 350 and EE 360, but this can be a quick introduction. Long story short by modulating the intensity of a light source you can encode information and transmit it. This would be called amplitude modulation or AM.

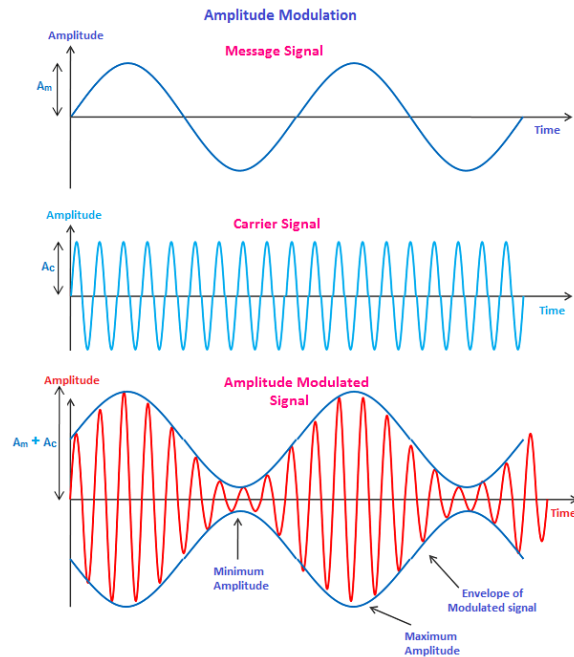


Diagram of Communication System



- 1) Which was easier to align the laser or the LED
- 2) Why would one be preferable to the other
- 3) What are some limitations of optical communication?
- 4) What are some advantages of it?