

## Lab 6 EAGLE Tips

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Hello students. You have been tasked with creating a schematic and placing the parts in that schematic onto a board that fits within a box. Today, I will share some tips and tricks on how to use EAGLE in a more efficient way to help you avoid pain and suffering (for me).

### Schematic Tips:

1. Use a mouse.
2. To pick up a part, you need to click or highlight the crosshairs on the part. Every part has a crosshair, you just need to find it.
3. If you've picked up a part, right click while you're holding it and you can rotate it.
4. You can type whatever function you want to use. For example, if you type "net ENTER", then you will switch to the net tool.
5. Never use the search tool to look for parts; it doesn't work. Go into the library where the part is and select it yourself.
6. Run an ERC to catch your errors.

### Board Tips:

1. Use a mouse.
2. Change the dimensions of the grid to place your parts in the exact spots that you want.
3. Avoid crossing the yellow lines as much as possible.
4. Vias are a thing. You can use them.
5. Do not use the autoroute function. We can all tell if you did.
6. Route your traces with 45-degree angle turns (mitered bends).
7. Run a DRC to catch your errors.