**Setting Up EAGLE**

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| **#** | **Description** | **Due Date** |
| 1 | Install Autodesk EAGLE  Register for a student license, giving you all the capabilities of the full version of EAGLE. I think it only lasts 3 years, however, unless they changed it when I downloaded my version. |  |
| 2 | Follow EAGLE CAD tutorial videos (you should make you board along with the video)  \*\*\*How the board layout was performed is not quite at preferred standards, but it does walk you through the basic board layer commands. We will discuss proper rules and guidelines later.  \*\***DO NOT** use the autorouter --- **EVER**  Industry looks for knowledgeable engineers that know how to design PCBs by following intelligent guidelines on doing so. The autorouter cannot give you this knowledge. Plus, unless you set it up correctly, it can frankly just give you really cooky results. And, of course, you only learn how to set it up correctly, if you can intelligently manually route the PCB yourself. So it all goes back to not needing the autorouter and actually knowing what you’re doing.   1. Schematic <<https://youtu.be/1AXwjZoyNno>> 2. Board layout: <<https://youtu.be/CCTs0mNXY24>> 3. CAM and DFM: <<https://youtu.be/oId-h6AeXXE>> |  |
| 3 | Add the Linnes Lab EAGLE Libraries, as well as the SparkFun EAGLE Libraries and Adafruit EAGLE library  <https://github.com/LinnesLab/LinnesLab-Eagle-Libraries.git>  <<https://github.com/sparkfun/SparkFun-Eagle-Libraries>>  <<https://github.com/adafruit/Adafruit-Eagle-Library.git>>  Please see NOTES 1 and 2. |  |
| 4 | Send any questions about “Setting Up EAGLE” to: <[ohoilett@purdue.edu](mailto:ohoilett@purdue.edu)> |  |

NOTE

1. Don’t add them to the EAGLE libraries folder. Instead, clone them to a separate directory (wherever you want to keep your files). This way, whenever you make changes to the library, you can push the changes to the GitHub and pull changes other people make.
2. There’s a guide on how to add new libraries to your EAGLE directory. This is the same for adding new “design block” directories as well. Please follow the instruction laid out here: <https://learn.sparkfun.com/tutorials/how-to-install-and-setup-eagle/using-the-sparkfun-libraries> **PLEASE IGNORE THE INSTRUCTION THAT SAYS:** “The last step is to tell EAGLE that, for now at least, we don’t want to use the default libraries. To do this, right-click on the “lbr” folder, and select **“Use none”**.” **DO NOT DO THIS**