ECE411 OSH Park Instructions

v2014-11-05

- **What you need to before you begin:**

    - **EAGLE Users:** EAGLE users just need their .brd file. Yes, that's right, no Gerbers, no schematic, just your .brd file. If you have multiple .brd files for your project, you'll have to do this process over for each board.
    - **Other CAD Users:** You'll need to generate Gerber files and an Excellon drill file. Since you're not using EAGLE, I assume you know how to do that. After you generate them, I STRONGLY recommend you view your CAM files in a free viewer, like 'gerbv'. You'll want to follow their board naming guidelines, found here: http://oshpark.com/guidelines , and put all of your files in a ZIP file.
    - **Your credit card:** It's $5 per square inch for your design. A giant 4 x 4 inch board is 16 square inches, times $5/square inch, is $80. But you're getting 4 boards, back, so that's actually $20/board or $1.25/square inch. For the record, this is **ridiculously cheap**. That said, if your group has financial hardships, please let me know.

- **Step 1: Register on OSH Park (or log in if you're already regisered)**

    - Have one of your group members go to http://oshpark.com/ and click 'Register' in the upper right hand corner.
    - Fill in your email, name, password, and hit register.
    - Wait for the confirmation email and click on the link.

- **Step 2: Upload your board file.**

    - Click on "Get started now".
    - Select your EAGLE board (.brd) file OR your ZIP file with Gerbers.
    - The OSH Park web site will chew on your files for a while. It could take quite a while, like minutes.
    - **Enter the correct project name: this ***MUST*** be the string 'ece411' followed by '-tXX-' followed by a short description with dashes and no spaces. For example, 'ece411-t23-led-flasher'. Obviously, do not put in quotes. This is important, please don't screw this up.**
    - Enter a short description of what your project is.
    - Eventually, OSH Park's website will crunch your board, and you'll see a picture of your board pop up. Cool, huh? If you don't get this, and there's some kind of error, then email me immediately with a screen shot and contact OSH Park support.
    - Click "Continue".

- **Step 3: VERY, very carefully check your board.**

    - You will now get 9 images of your board, one image per physical layer.
    - Check EACH LAYER very carefully.
    - Each layer should make sense, and reflect what you have in your layout.
    - If it doesn't reflect this, or if you've made a mistake and need to go correct it, go back to your CAD program and fix it.
    - When you're sure it looks right, click 'Approve and Order'.

- **Step 4: Fill in your name and shipping Address**

  - Leave quantity 3. You will actually get 4 boards.
  - Put in your name.
  - Put in the PSU address:
      PSU ECE
      1900 SW 4th Avenue ste 160
      Portland, OR, 97201
  - Shipping method should stay "Free shipping".
  - Click on "Order It".

- **Step 5: Pay for the board**

  - Click Cancel if something has gone wrong.
  - Else, pay for the board using a credit card or Paypal.

- **Step 6: You're done! Unless..**

  - If you have another board, upload that just like above.
  - If you get some kind of error, go to OSH Park tech support or email me with a screen shot of what the error is.