Homework 3: Board Manufacturing

Homework is due Feb. 18th 11:59pm on Canvas. Again don't put this off to the last minute!

1. Introduction

It's time to fab your board! As you already know, we will use a PCB manufacturer called OSHPark (https://oshpark.com). They are reasonably cheap with 2 layer boards for $5 per square inch, provide 3 copies of your board included in that price, and ship in under 12 calendar days from ordering. This is why we need to place the order ASAP to make sure we get the boards for the final labs. You already have all the necessary parts from Homework 2.

2. Instructions

Once your board has been approved by the grader, all what you have to do is go through the submission page: https://oshpark.com and submit the fabrication files according to their needs: https://oshpark.com/guidelines. Make sure to clean all the possible errors the system will detect. Once everything is ready to go, please checkout and pay the fees.

Note that to reduce the fabrication costs, you are allowed to team up and send a unique board per group of three.

If you prefer to minimize risks (or in case your board has many flaws identified by the TAs), please feel free to use any of the solutions available on Canvas. We have an Eagle .brd file from the solution of this year that we believe should work find (but there is never a total guarantee ^^) or the Gerber files from the board made last year, that was fully functional.

3. Deliverables

Submit your order ID through Canvas. If you submit a unique board per group of 2 or 3 – Please still have an individual submission on Canvas and indicate which design you used and who your partners are. Submit a picture of your manufactured board as a late assignment once the boards are back!

Note that the "Due Date" for this assignment is the time by which you should have sent your design to OSHpark! It takes at least 12 calendar days for your boards to be ready. Thus, we want to get them in ASAP.