# Assignment 6

# Motor Driver PCB Layout and Fabrication

Schoelen EET122, Spring 2020 Remote

revA: 05/18/2020

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# Week: Start 05/21/20 - End 06/04/20

## Objectives:

1. Complete a Printed Circuit Board (PCB) design from start to finish in KiCad.

a)	Enter schematic into KiCad	Week1
b)	Assign footprints to symbols	Week1
c)	Export design to KiCad's PCB tool	Week1
d)	Place Components	Week1
e)	Route the PCB traces	Week1 and 2
f)	Export completed files and upload to Osh Park for fabrication	Week2

### Read / Watch:

KiCad Videos for review if necessary: <a href="https://www.youtube.com/watch?v=vaCVh2SAZY4">https://www.youtube.com/watch?v=vaCVh2SAZY4</a>

#### Do:

Use the Lab6 Discussion board if you need help.

- 1. Read the following PCC lab exercise: http://spot.pcc.edu/~dgoldman/labs/eetdig-2-4.pdf
- 2. Watch Joe's KiCad videos posted on D2L
- 3. Derivable are to be uploaded to D2L for grading.

For the deliverable use this this naming convention please: LastNameFirstName\_L6

# \*\*\*\*\* This is a two week Lab \*\*\*\*\*

#### **Procedures**

The videos uploaded to D2L walk you through this design. Do not procrastinate on this lab.

1. Watch each video and complete the PCB design. Use the symbols and footprints that I recommend in the videos.

## Deliverables to be uploaded to D2L for grading

#### Due 05/28/2020

- Upload into Week1 D2L the KiCad files: SCH, PRO, and PCB
  - You schematic should be complete with footprints assigned, annotated and DRC ran
  - You PCB board outline should be in place, your components places, and some routing done.

#### Due 06/04/2020

- Upload your exported files to Osh Park for fabrication, order the boards
- Upload into Week2 D2L the KiCad completed final files: SCH, PRO, and PCB
  - o You PCB should be completely routed and DRC run.
- Upload into Week2 D2L a screen shot of the rendered board files from the Osh Park website.
  SEE PIC BELOW

