

Basic PCB Design using KiCad

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Nikolas Clark

Lecture Outline

- Why KiCad? What other software is used in industry?
- PCB Layers and descriptions
- Traces and Vias
- Schematic Design
 - Adding components
 - Creating custom components?
 - Importing components into custom library?
 - Connecting with wires
 - Connecting with labels
 - Associating footprints with Symbols
 - Exporting schematic to a netlist
 - Electrical DRC
- PCB design
 - Importing from a netlist
 - Basic elements of a good design
 - Defining board outline with edge cuts
 - Adding traces/vias
 - Adding planes
 - Design Rules Setup/Check
 - Exporting Gerbers/Feducials
- Ordering a board from Oshpark, or another service