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ENGR 357L

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Electronics II: Project Outline

1. Have values for resistors and capacitors figured at least before the board arrives
   1. Some of the parts on the board have not yet been figured out, so I will have to work with my partner to have that sorted out
   2. Primarily work on this part from 5/15/20 – 5/17/20.
2. Solder on parts onto board
   1. Solder on the hardest parts (surface mount parts) on the board
      1. Watch some videos on how to carefully solder on surface mount (i.e. IC chips)
         1. If the IC chips are being soldered on, make sure they are correctly oriented in place
   2. Solder on through hole parts (i.e. resistors, capacitors, diodes, etc.)
3. Before everything is put on the board, test each individual circuit on the board
   1. While soldering, keep in mind that the circuits on the board must be built in stages
   2. Stages:
      1. Bandpass Filter
      2. Tayloe Mixer
      3. Lowpass Filter
   3. After finishing each stage, make some tests and move on if it’s working as intended.
      1. If the stage does not work correctly, check, and see if some of the parts (hopefully not the surface mount parts) are placed on properly
4. Have the whole entire board built and make tests
   1. After the whole board has been built and has been tested thoroughly, send in a signal and check to see if it’s working as intended