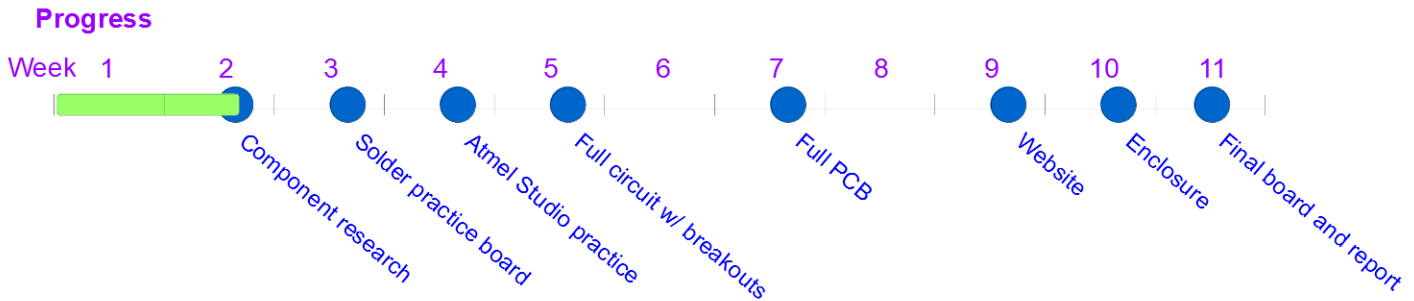


Task 2: Soldering

Due: Jan 23, 2025



Please complete this assignment individually. To get credit for your work, you must upload your video to Canvas, and come to either Ilya's, Yiming's, Enya's, or Shannon's office hours and show them your soldered practice board.

For this assignment, you will demonstrate your surface mount soldering skills, as well as your ability to safely use the equipment.

1. Solder one of each of the 4 components on the practice board. To get full credit, every pin must be connected and there must be no bridges between pins. Make sure to show this to Ilya, Yiming, Enya, or Shannon to get credit.
2. Using the help of your partner, record a video of you performing all of the following actions. Make sure to upload this video to Canvas.
 - (a) Start with the station off and the iron cold.
 - (b) Take the iron and remove the tip.
 - (c) Replace the tip and put the iron in the holder.
 - (d) Turn on the station, but keep the iron and hot air gun off.
 - (e) Turn on the fume extractor and light.
 - (f) Turn on the iron, and let it heat to 350° C.
 - (g) Change the iron temperature to 340° C. Then, change it back to 350° C.
 - (h) Clean the iron tip in brass wool.
 - (i) Coat the tip with solder under the fume extractor.
 - (j) Turn off the soldering iron only and replace it in the holder.
 - (k) Turn on the hot air gun.
 - (l) Take the hot air gun from the holster, and show it heating to 300° C.
 - (m) Change the hot air gun temperature to 350° C. Then, change it back to 300° C.
 - (n) Change the air flow to the maximum. Then, change it to the minimum.
 - (o) Reholster the hot air gun and let it cool until its fan shuts off.
 - (p) Turn off the hot air gun.
 - (q) Turn off the soldering station.
 - (r) Turn off the fume extractor and light.