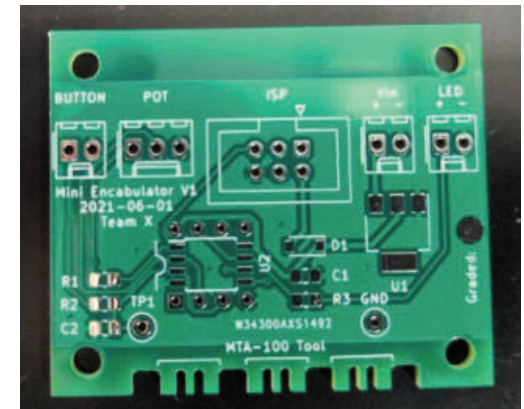
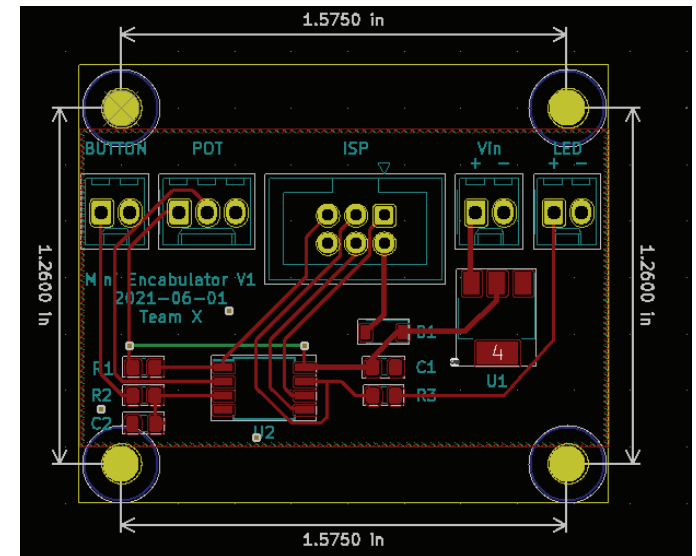


PCB Assignment

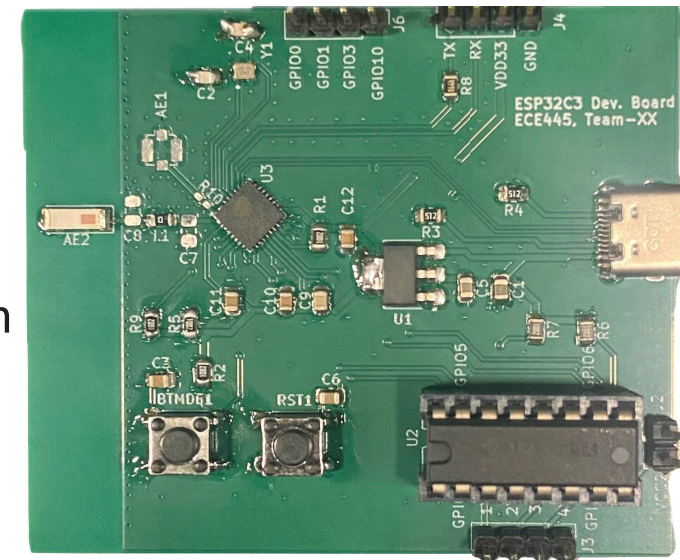
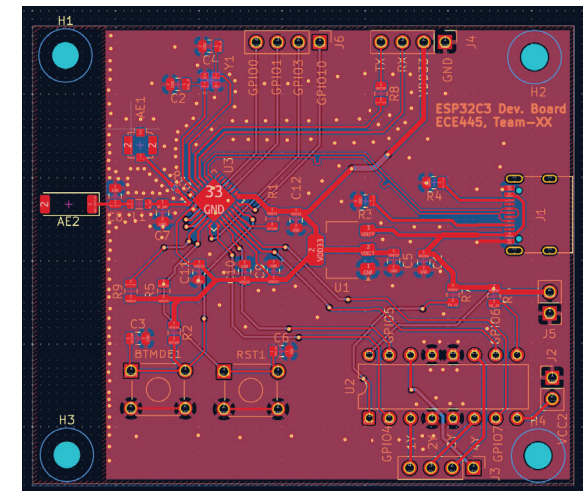
PCB CAD and Soldering Assignment

- The CAD and Soldering assignment is structured to teach PCB design and soldering
 - Essential skills for success in this course
- You will use KiCAD to do schematic capture and layout for a predesigned board
- Complete assembly in the lab
 - Solder, program, and demo of your PCB
 - Demo must be done during TA OH
- The entire assignment is individual.
- Refer to the rubric on the website for grading details



Extra Credit Opportunity : Spring 2026

- This semester, we will be piloting an updated version of the assignment using a different microcontroller (ESP32)
 - Process is the same, but final PCB will also serve as a development board for your capstone project
 - More powerful MCU and likely can handle your capstone needs
- Currently can only support a limited number of interested students
 - To complete the assignment, students will have to attend a lab session during: **Friday February 6th, 2-4:30 pm**
 - This will replace your CAD and soldering assignment and you will receive 10 extra credit points for completion
- Board features:
 - Motor controller, wifi-capability, various GPIO



Interest Form

