

Deliverable #5b: Board Assembly

1 Objective & Details

For this deliverable, you will assemble your project board, or one of the board provided by me. This will get you familiar with the assembly process, from laying down solder paste, picking and placing SMT components, using the reflow oven, to fixing errors with solder irons, wick, and flux.

To get full credit, you must show me the assembled board before the due date. The board must be solder bridge free, and clean.

2 Collaboration

The class project is **not** a group project, students will be graded individually based on what they submit, build, test, and finally, demo. All projects must meet the individual requirements listed. However, if you are interested in collaborating with others on a project together, that is fine. Just remember you are responsible for your own grade, so organize appropriately. Make sure your hardware / software / firmware does not depend on someone else's. If you choose to collaborate with others on a larger project, your part must still be able to independently demo a working system that is microcontroller driven, with your own custom software and custom PCB, that includes a radio component, an analog component, and a visual component.

3 Submission Instructions

This deliverable is due by the end of the school day, November 25th. Absolutely no late assignments will be accepted.

Submission entails showing me the completed board me in person, preferably in class, but possibly in office hours or by appointment.

4 Grading

This deliverable is worth 5% of your final class grade.

If the board is not shown on time, you will get a 0%.