

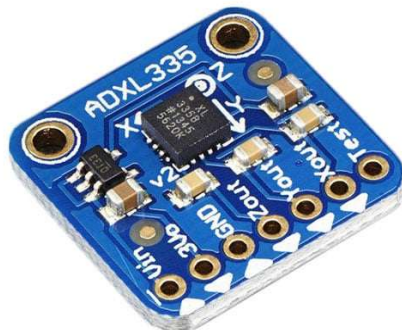
ENSC 351 Fall 2025 soldering requirements.

For completion of the labs in this course, three components will need to have headers soldered to them. You should have a breakable header in your kit to break off a piece for each of these components at a size you need.

1. Joystick. Use a five-pin header and solder it through the holes with the long side of the header facing down for easy insertion into a breadboard.



2. Accelerometer. For the analog accelerometer the recommended method is the same as the joystick. In this case using a seven-pin header. With the accelerometer, you will need to be able to move it, so you may want it an the end of wires. This is most easily achieved by using a header with the jumpers provided.



3. NeoPixel LED Strip: This component is more difficult as there are not through-hole pads on this board. For this board a four-pin header must be soldered as a surface mount component to the pads of the circuit board as shown in the image. Be sure to connect this to the data-in side of the board.

