

Week-3 Assignment 1

1.1) DIY FLEX SENSOR



The sensor I made consists of two cardboard strips, two strips of aluminium foil, a strip of paper shaded with pencil (acts as substrate) and two wires with ends cleaned.

The procedure followed is by gluing the aluminium foil to the cardboard strips and gluing the wire in contact with the foil.

Then the shaded paper is placed in between the two foils such that the tip of the foils (opposite to where the wires are connected) are in direct contact with each other for current flow and the strips are glued together.

By connecting a multimeter to the wires we can find that the resistance increases when the cardboard is

bent which is the purpose behind a flex sensor (this is shown in the video embedded [here](#))