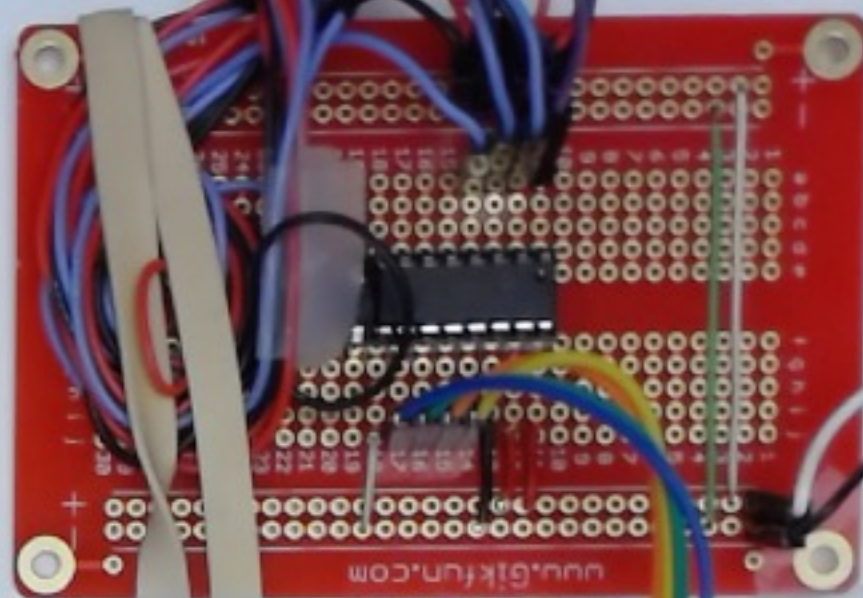




CAPACITANCE
"TYPE" CIRCUIT
+3.3V,
LADDER IS
VARIABLE
RESISTOR



ANALOG TO DIGITAL
CONVERTER

8 CHANNEL
(MCP 3008)

10-BIT CONVERTER

STATE: 0 = 0VOLTS

1023 = 3.3VOLTS

(AS PROGRAMMED)

(40sec. Average)

ADout VOLTS

598.3 1.93V

570.4 1.84V

533.2 1.72V

489.8 $\frac{489.8}{1023} \times 3.3$
= 1.58V

LOSING RESOLUTION →
NEED LARGER (MORE) RESISTORS IN



MICROCOMPUTER
(RASPBERRY PI)

7.1"

5.6"

4.1"

2.5"

1.1"