

# ELECTRONICS PROJECTS TROUBLESHOOTING CHECKLIST

Your Project isn't working? Stuck on your project? Follow these simple steps to solve the problem

Hardware	Software
<ul style="list-style-type: none"><li><input type="checkbox"/> Is your Circuit design correct?</li><li><input type="checkbox"/> Is your project powered on (Check the Power Cords and wires – on both sides)?</li><li><input type="checkbox"/> Is the voltage correct (Do you use the right voltage sources? AC or DC, 5v, 9v, 12v, 110v, 220v)?</li><li><input type="checkbox"/> Enough Current? Is the current limit of your power supply exceeded (1 Amp, 2 Amps, 100mA)?</li><li><input type="checkbox"/> Are all the components correctly connected? Pins order?</li><li><input type="checkbox"/> Are any components broken or faulty (replace and double check each item either using a DMM or using an oscilloscope)?</li><li><input type="checkbox"/> Are any of the connections loose, double check the wires and the holes where you place each wire and pin?</li><li><input type="checkbox"/> push it down on your circuit, sometimes when you over use a breadboard, the contacts are not conducting as desired?</li><li><input type="checkbox"/> Double check the datasheet and the pin order, Are your ICs connected correctly and did you check the datasheet?</li><li><input type="checkbox"/> Do you fully understand what the ICs are supposed to do?</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Is your program Code correct?</li><li><input type="checkbox"/> Are there any instances of unreachable code?</li><li><input type="checkbox"/> Are there any endless loops where they don't belong?</li><li><input type="checkbox"/> Did you forget to initialize a variable?</li><li><input type="checkbox"/> Did you forget to call a method?</li><li><input type="checkbox"/> Which parts of your program are executed (try debugging)?</li></ul>