

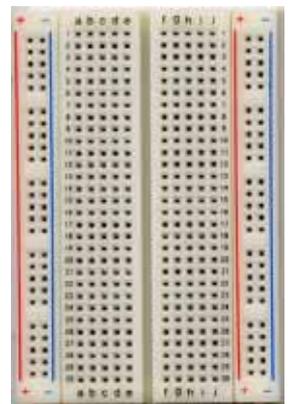
## Prototype Design Methodology:

1. Specifications based on requirements
2. Research
3. Schematics
4. Simulation
5. Construction (PCB Layout or other wiring technique)
6. Parts Purchase
7. Assembly
8. Firmware Development ( Assembly, C and/or BASIC )
9. Testing and debugging

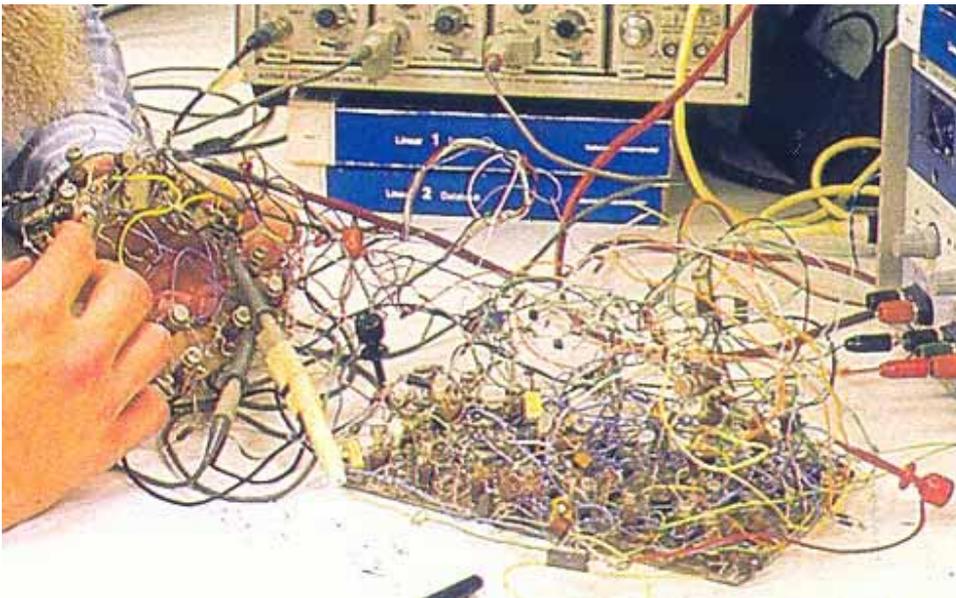
## Construction

**Breadboard:** Quick way to set up a circuit. It can be used only with through-hole components although adapters for some surface mount devices exist. Not suitable for high frequencies, due to stray capacitance and inductance. Also, long connecting traces inside the breadboard act as antennas. Also, not suitable for high current and/or high voltage circuits.

Breadboard cable for BiPOM boards: **EXPCABLE-BR1**



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**Point to point wiring:** More permanent than breadboard. Components are soldered to a perforated board, typically known as Vero board. Radio Shack sells these.

