Dripping Faucet Project
Figure 1: Procedure

Goal:

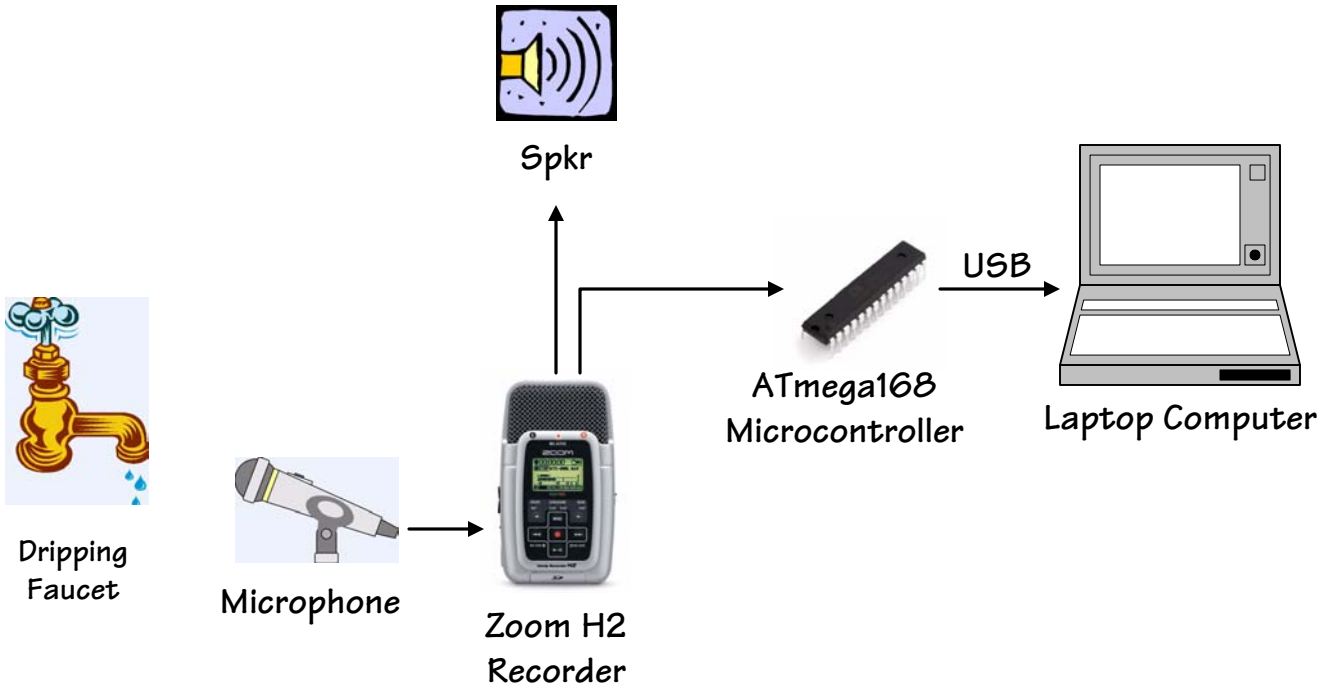
To graphically display time intervals between drops from a dripping faucet. When just listening they appear to be irregular but my suspicion is that there is a pattern which will become evident when viewed in the X-Y plane.

Procedure:

1. Capture sound of dripping faucet with the Zoom H2 recorder.

2. Clean up the signal and present it to the ATmega168 Microcontroller which will generate a string of numbers representing the time intervals between drips (C program).

3. Export the number string to the Sony Vaio laptop computer which will present it as points in the X-Y plane where $(x_n\ y_n) = (t_n\ t_{n+1})$ (Basic program).



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