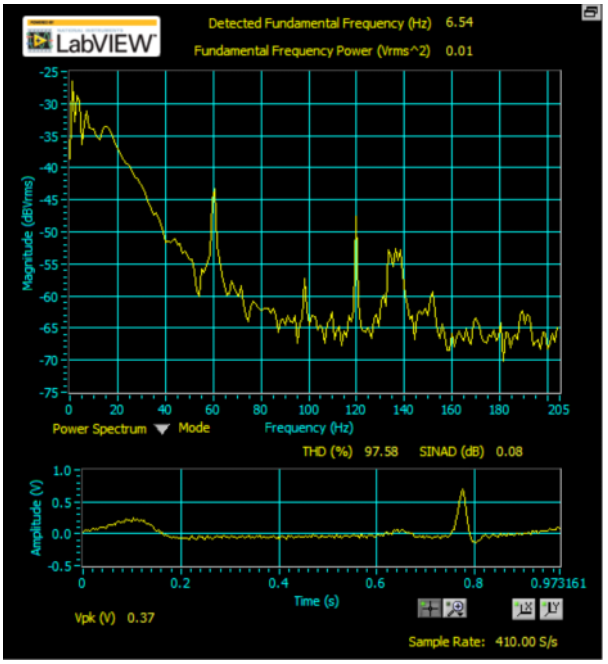
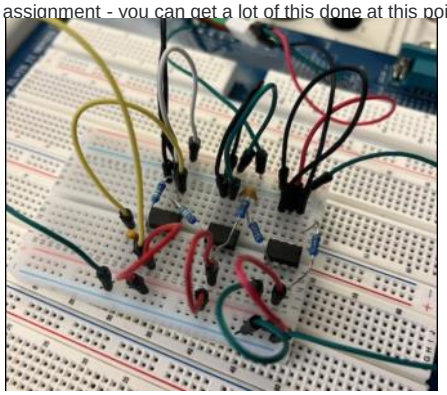
Week 10: eKG!!!

Tuesday, November 1, 2022 8:21 PM



Finish your ECG circuit on the solderless breadboard by adding the high-pass and low-pass filters

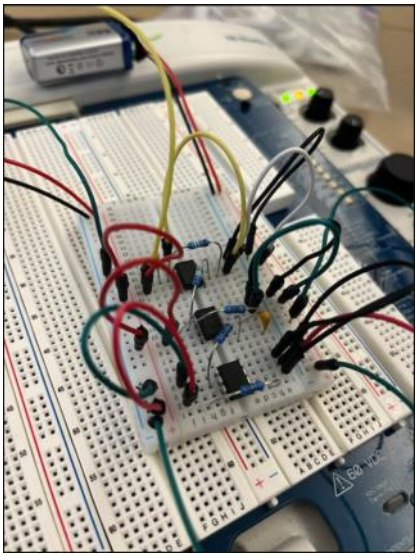
1. Decide which resistors and capacitors to use based on your desired amplification and filtering
2. Measure your ECG using the ELVIS boards and the ELVIS tool "Dynamic Signal Analyzer"
3. Once you have a good working signal, build an ELVIS VI to capture the data for at least several heartbeats.
4. Start working on the ECG project assignment - you can get a lot of this done at this point.



Component Values:
High Pass: 0.45 Hz, Gain: 0 dB
C: 0.7076 µF
Rin: 497.29 kΩ
Rf: 497.80 kΩ

Low Pass: 47.5 Hz, Gain: 0 dB
C: 0.1679 µF
Rin: 19.929 kΩ
Rf: 19.951 kΩ

Gain Resistor: 99.54 kΩ



Week 11: EKG

Tuesday, November 8, 2022 11:45 AM

Objectives:
Your custom PCB should be delivered from the manufacturer by now.

1. Solder all the components from your solderless breadboard onto the custom PCB (remember do NOT solder the AD620, but the 8-pin IC connector).
2. Measure the ECG signal with your device that has been soldered onto your custom PCB.
3. Finish the ECG project assignment.