EMG Lab 5: Finalizing EMG

BIOE 385 Bioinstrumentation Laboratory

Goals

1. Set default values for indicators and control the range (maximum and/or minimum value) that the user can manipulate
2. Display data from different channels in the same graph or chart
3. Merge and split signals
4. Store results in a table (front panel) and save them into a file
5. Use Inputs from the Express functions in LabView to acquire and simulate signals
6. Use Structures, Arrays, Numeric, Boolean, Comparison, File I/O, Timing and Strings from the Programming functions in LabView to create user friendly VIs
7. Justify the selection of components used in the circuits designed in lab
8. Explain the LabView VI built to calculate reflex time
9. Identify and describe the main limitations of your device

In-lab Assignment

This week is the time to finish up your assignment. You are tasked with making sure everything works together and that you have all the images and information that you need to compose your final report. Consider what additional features could be implemented now or be proposed as future improvements. Before you leave today, make sure the following are working:

- Hammer circuit
- EMG circuit
- LabView VI

Remember that your project and report are graded on sophistication and ease-of-use. With that in mind, use any extra time you have to make your project even better!