ELECTROCARDIOGRAM SIGNAL PROCESSING TEST

Electrocardiogram (ECG) signal pre-processing usually consist of several steps, being some of the most common the following:

- Recording spikes (artifacts of great amplitude) removal.
- Low-pass filtering.
- Powerline interference filtering.
- Baseline wander and offset removal.

Using Matlab, prepare a code for ECG signal pre-processing that contains all the previous steps. The code must also detect if a given channel is not connected. You can test your code using the signals provided in the ecgConditioningExample.mat file.

Please, document your code appropriately. The efficiency of the employed approach, and the use of adequate parameters (e.g., cut-off frequencies) will be valued.

Once completed, please make your solution available to us through a link to a GitLab repository.