**DSP OF ECG SIGNAL WORK**

-Static filters MCU inits

1) Notch 5 filters second order IIR for 50hz and harmonics (differential equation with fix coefficients)

2) average filter for reduce the DC component

-Dynamic Filters mobile-server unit

3) IMF define with the use of Empirical Mode Decomposition (EMD) in Hilbert space.

4) Base the (1) reduce Baseline Wander noise.

-Future work Dynamic Filters mobile-server unit

5) better estimation of BW noise

6) detection of QRS complex and reduce higher noise components of signal

**DETECTION OF HEART RATE**

- use of (6) for detection of QRS complex and detect the HR.