ECE 493/593 Telehealthcare Engineering

Homework # 3 (Due: Oct 25, Thursday)

Q1. Explain the pros and cons of Fourier Transform.

Q2. How does Short Time Fourier Transform overcome the above cons?

Q3. Explain how the wavelet transform achieve a good time-frequency observation from filters' viewpoint.

Q4. Draw the architecture of cellular networks and explain how a home healthcare network can be connected to such a network.

Q5. Read the "class project" documents and explain the EEG circuit design principles. (Provide the circuit and explain each part of circuitry).