**Homework #2**

(ECE 493/593 Tele-Healthcare Engineering)

**(Due Day: Thursday, Sep 25, 2012)**

In the past week, we talked about two good journal papers on mobile health. Please answer the following questions after you go over those two papers again:

Q1. Why do we need a PDA in each patient's body?

Q2. What benefits can we obtain when using PSoC chip?

Q3. Explain two medical signal transmission strategies that have different data loss handling schemes.

Q4. Explain the concept of erasure codes as well as its benefits in m-health applications.

Q5. Why do we use Extened Kalman Filter, Particle Filter, and Wavelet based on the discussions from the paper?

Q6. How does Codeblue recognize each sensor's positions?

Q7. What's the principle of pulse oximeter in terms of measuring SpO2?

Q8. How does Codeblue deal with packet loss?