**EE4951W – Power-Monitoring Device**

**Demonstration Description**

We will show a system composed of a wireless modem, a power-sensing device and an LCD where voltages, currents and power calculations will be shown. The purpose of the power-sensing section is to monitor the voltage across the battery and the current drawn from it, which will then be digitized by a microprocessor that will perform the power consumption calculation of the whole device.

The power consumption will be stored in an SD card and displayed on an LCD for real-time readings as well as maximum, minimum and average measurements. Additionally, the readings will also be sent to a laptop via a USB cable where statistical calculations will also be displayed.