CSE408 Sustainable Engineering Design

Lab 1 Anti-theft Application I

Due on Apr. 12th

This lab is to implement a real application based on the knowledge of communication, sensing and networking with TinyOS and IRIS sensor mote. The application is called anti-theft, which is to prevent stealing and alarm the user when a sensor node is being stolen.

In this lab, you are required to use two IRIS sensor motes to form a sensor network. Each of the sensor motes is attached a MDA100/MTS300 board to sense the light intensity. When either sensor mote is stolen, we suppose it will be put in the theft's pocket or a bag, the surrounding environment of the sensor mote will be very dark, then we can detect the steal through sensing the light intensity. When either sensor mote is stolen, the other one should be able to blink three LEDs to alarm the user.