Based on your general experience and on reading chapters 1-4 in Anderson, discuss the two cases below. Short answers: two pages or less per case study. Be prepared to discuss them in class.

A. Public transport system with automated fare collection based cash/tokens versus smart cards.

Prepare the same discussion of a public transit system as for the bank in Anderson chapter 1, section 1.1. Distinguish between a cash/token based system and a smartcard-based system; the core, risks, public face, and controls are quite different. Answer questions 1-3 separately for a cash-token system and a smartcard system, since they are quite different; you may give a single answer for both options in questions 4-6.

1. What is the core of a transit system’s fare collection system? What are the internal risks at each station, bus, or bus depot (where farebox contents are typically managed)?
2. What is the public face of the transit system? If it is electronic or has to do with funds, what are the security risks from your passengers?
3. What systems are involved in getting public transport system funds collected from fares to its financial organization and then to banks? What are the risks?
4. What physical controls on smart cards or cash are needed?
5. What controls are needed with credit cards or debit cards used to purchase smart cards or other fare media?
6. What risks does a public transit system Web site pose that sells passes or other fare media?

B. High tech manufacturing facility

Prepare the same discussion of a high tech manufacturing facility, with substantial process secrets, valuable inventory and high profitability as for the air force base in Anderson chapter 1, section 1.2:

1. What electronic espionage risks are there in a high tech manufacturing facility? What should the company do to minimize them?
2. What risks are there in Internet traffic to and from the manufacturing facility? What could an eavesdropper learn? What should the company do to minimize risks?
3. Does the plant need to keep information at different levels of security or secrecy? If so, how does it do so?
4. How does the facility control ingress and egress? Do biometrics have a role?