CSC 302

Prof. Turner

Summer 2006

Written Assignment #2 – Due Monday, Aug 7 at the start of lecture

You may do this assignment individually, with part of your team or with your entire team.

Choose a system that uses computer control and submit (email or short written note) the system for approval; your system must be unique in the class.

## Then

- Describe how the computer is used in the system
  Use a specific case study or product if at all possible.
  If applicable, describe the human tasks the computer replaces.
- Discuss the benefits the computer provides for the system and to society in general
- Discuss disadvantages and problems caused by using the computer to control the system. e.g. fly-by-wire computers have refused to give control to the pilot.

The paper must be a least 3 printed pages, written at a WPE level of 4 or above.

Partial List of Computer Control Uses (first come, first served on choices)

- 1. Building heating/cooling systems
- 2. Fly-by-wire airplanes
- 3. Military weapons (many, many choices) e.g. Smart bombs, friend or foe systems)
- 4. Automobiles (several choices)
  - e.g. fuel combustion control
- 5. Building security (e.g. Cal Poly gym)
- 6. Toothbrushes
- 7. Toasters
- 8. Many other household appliances
- 9. Medical devices (1000s of them)
- 10. Smart keys
- 11. Robots (many different applications)
- 12. Machine tools
  - e.g. guitar making example
- 13. Factory automation systems