ENG 470 - SYSTEMS ENGINEERING PROJECT #3

PRELIMINARY SYSTEM DESIGN OF THE "REDBOX" AND DETAILED SYSTEM ARCHITECTURE SIMULATION WITH MATLAB

In this project, the students will develop a "Preliminary System Design" for the "Redbox".

- 1. Continue working with the requirements for the Redbox, and this product and business model in general.
- 2. Write a report, which will be due by the date announced in class, containing the following deliverables:
 - a. (1) Development Specification (Type B).
 - b. (1) Documentation of the Identification of Resource Requirements.
 - c. (1) Documentation of the Functional Packaging into Major Elements.
 - d. (1) Documentation of the Requirements Allocation.
 - e. (1) Documentation of the Systems Analysis.
 - f. (4) Documentation of the usage of Matlab Stateflow to draw a Functional Block Diagram for the system and subsystems, and simulate all levels of architectural behavior of the system. Submit all Matlab work!
- 3. GRADING RUBRIC: The total grade will be 9 points normalized to 100% for your report. Each of the deliverables outlined in points a through f in (2) are worth the number of point indicated within parentheses.
- 4. REPORT FORMAT: Free form, but it must be:
 - a. One report per student
 - b. Have a cover sheet with identification: Title, Class, Your Names, etc.
 - c. COMPLETELY word-processed
 - d. Double spaced

- e. 12 pt Times New Roman font
- f. Fully justified (optional)