

## Oral Presentation 3

Date assigned: 25 September 2009

Professor Ho-Jin Choi

Date due: Thursday 1 October 2009

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**Make a 15-minute presentation on the progress of Project 1 as assigned below. You should submit the PPT or PDF file to your TA before the class begins. This homework is to be done in teams.**

### Assignment:

In Projects 1 and 2 of this course, each team is required to design a fault protection system for a spacecraft as appeared in the article by Steve Easterbrook et al. [Eas98]. Project 1 concerns on understanding the problem (i.e., the requirements), and Project 2 on design of the system.

In this presentation (OP3), the objective is to apply problem frame analysis for Project 1. That is, you should identify the particular patterns in the project through problem frame analysis and decompose your problem into subproblems.

You will need to provide the context, i.e. the scope of the problem setting, in terms of domains, state the requirement in terms of shared phenomena and look for structural similarities of the subproblems to known problems using frame types.

### References:

- [Eas98] Steve Easterbrook, and et al., “Experiences Using Lightweight Formal Methods for Requirements Modeling,” IEEE Transactions on Software Engineering, Vol. 24, No. 1, January 1998.
- [Jac01] Michael Jackson, Problem Frames: Analysing and Structuring Software Development Problems, Addison-Wesley, 2001.