

## **CE 8930**

### **Group Assignment #1**

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Assigned: Thursday, January 16 2014  
Due: Thursday, January 23, 2014 (midnight)

Recall the first in-class exercise (Lecture Set #1).

The first group assignment entails the development of a conceptual framework for a new business plan for a manufacturing company. In groups of three as indicated on BB, write a 2-page report which addresses how your group (consultant company) will use structural health monitoring techniques to develop a new damage-based contract/lease for your customer. This approach should replace the time-based lease business plan.

Be sure to explain in depth every aspect of your SHM (sensor selection, installation, data collection, data processing, and implementation). Of particular interest is how the implementation of business plan and determination of cost associated with depletion of remaining useful life.

A motivation must also be provided regarding how this new type of damage-based contract is more beneficial to your customers.