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# SOFTWARE ENGINEERING

## CS 487

Prof. Dennis Hood  
Computer Science

# Homework #2

- Design an AI audio system for a car which:
  - Is required to keep occupants entertained by:
    - accepting requests from the occupants,
    - interfacing with sensors to detect human emotions and,
    - providing satellite- and radio-based content based on mood.
  - Becomes more aware of user preferences over time
    - Both for specific occupants and
    - for classes of occupants based on relevant attributes.
- Deliverable requirements:
  1. Draw a context model showing the system and its partners
  2. Specify (with diagrams, narrative, etc.) H-C-I protocols to support each of the above relationships
  3. Use pseudocode to show the automated detection and handling of a partner failure (choose one)
- Submit to Blackboard by Sept. 30<sup>th</sup>