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جامعة الملك سعود

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# GE105: Introduction to Engineering Design

## Problem Formulation

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# HomeWork # 1 (due November 9<sup>th</sup>, 2014)

Design a device for securing a coffee cup near the driver's seat of an automobile. The device should prevent the cup from spilling and should not interfere with the proper operation of the car. It should be universally adaptable to a wide variety of vehicles:

1. Establish need.
2. Design objectives.
3. Set constraints.
4. Set evaluation criteria.
5. Define the problem.
6. Specify the needed information to be gathered.