

CISC 3415 Fall 2011, Homework 3

1. Recall from Homework 2 that you are the chief robot designer for U.S. Robots and Mechanical Men, Inc., and you are working on designs for the following robots:
 - (a) A delivery robot that will carrying supplies to different departments in a hospital.
 - (b) A supply robot that will carry heavy loads across loose soil and sand.
 - (c) A security robot that has to secure a wooded, hilly, area.
 - (d) A butler robot that will greet guests in a home and bring them drinks.

For each robot, describe what sensors you will equip it with, justifying your choices.

Remember that, despite its monopoly, U.S. Robots and Mechanical Men, Inc. is a business, so you need to think carefully about the cost/benefit ratio of the sensors.