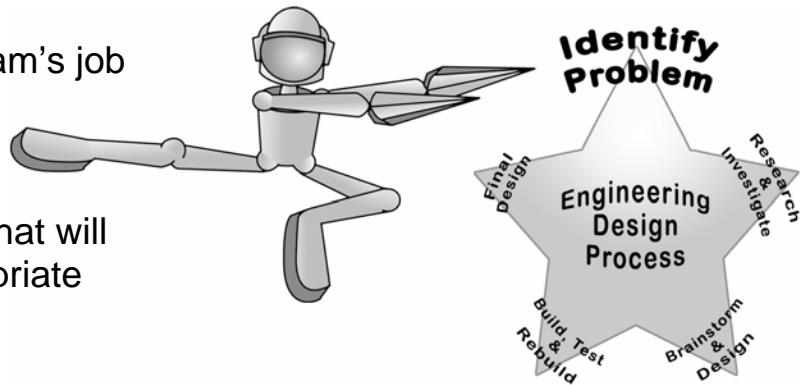


Background: Explore-It-All...In Space, Inc., has been granted permission to conduct sample studies in one small area of Mars. Initial studies of Mars have already been conducted through the use of fly-by and orbiter missions. Using the highest resolution photos from these previous missions, **scientists** have identified one area to closely study the geologic make-up of the surface of Mars. The primary investigation will be to drill core samples and collect smaller rocks for sample studies. At the same time, a secondary mission will be achieved by clearing a space for future human exploration landing crafts.

Proposal: To accomplish this mission, EIA...In Space, Inc. is requesting proposals from companies to design and build robots capable of performing specific tasks. **Successful proposals will consist of a working robotic prototype able to fulfill the requirements at the lowest cost.**

Assignment: As **engineers**, it is your team's job to design robots capable of retrieving materials that the scientists have determined they wish to study. You will need to design and build a type of **rover** that will move across Mars' surface with an appropriate **end effector** to carry out your given task.



Your team has been assigned the following mission:

Engineering Team Members:

- _____ Mission #1
- _____ Mission #2
- _____ Mission #3
- _____ Mission #4
- _____ Mission #5