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Function 1: detect safe landing site

1. Camera
2. Laser
3. Metal detector
4. Infrared light
5. Thermal imaging
6. Proximity sensor
7. Electric current
8. Magnetometer
9. Doppler radar
10. Thermocouple

Function 2: protect rover payload while descending

1. Bubble wrap around rover
2. Hold it in a big box
3. Have rover on arm that moves it out of the way of space debris
4. Electrostatic magnets to hold it in place
5. Hold it in the center of lander on platform

rover

1. Metal cage around it
2. Counter weight to account for abrupt movements
3. Fan blades to hit debris out of the way
4. Second shell around rover
5. Cover rover in Styrofoam

rover



rover

rover