**Definitions and Technical Terms**

* Computer Vision – A field of programming which allows for sophisticated visual sensing of an environment, through object detection (and avoidance), facial recognition, and other applications of cameras.
* Omniwheels – These wheels have laterally moving rollers which allows a single wheel to translate from side to side in addition to the normal rotational motion of a standard wheel. When several of these are used in combination and powered in various combinations, the vehicle is able to move in any direction on a plane without having to rotate the body.
* Radioisotope Thermoelectric Generator (RTG) – A generator which uses the decay of nuclear materials and thermocouples to generate electricity.
* Rocker Bogie System – A set of articulated axles which uses a series of levers and hinges to connect six wheels to a rover chassis. This allows the chassis to remain remarkably stable regardless of the terrain, as each wheel can move independently to correct for surface features.
* Spectrometer – An instrument which uses light emissions from samples to determine their chemical composition.
* Ultrasonic Distance Sensor – measures distance by sending out a ping of sound and timing how long it takes to return, similar to echolocation.