

A SPACE ROVER DESIGN



MISSION REQUIREMENTS

BASIC STUFF

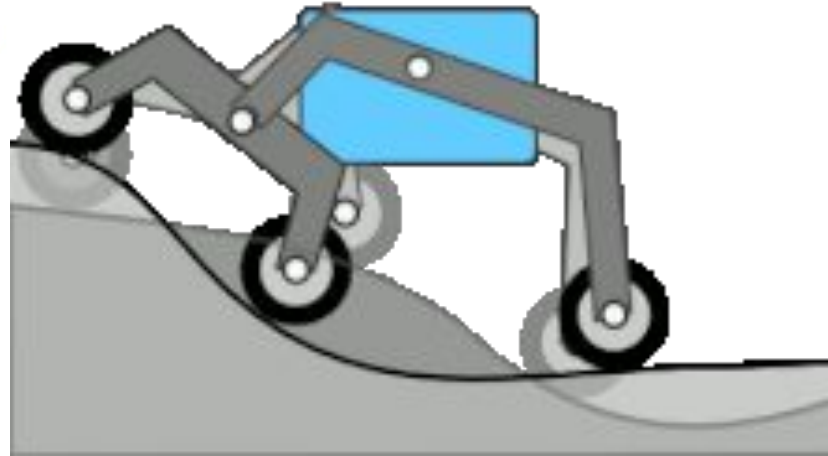
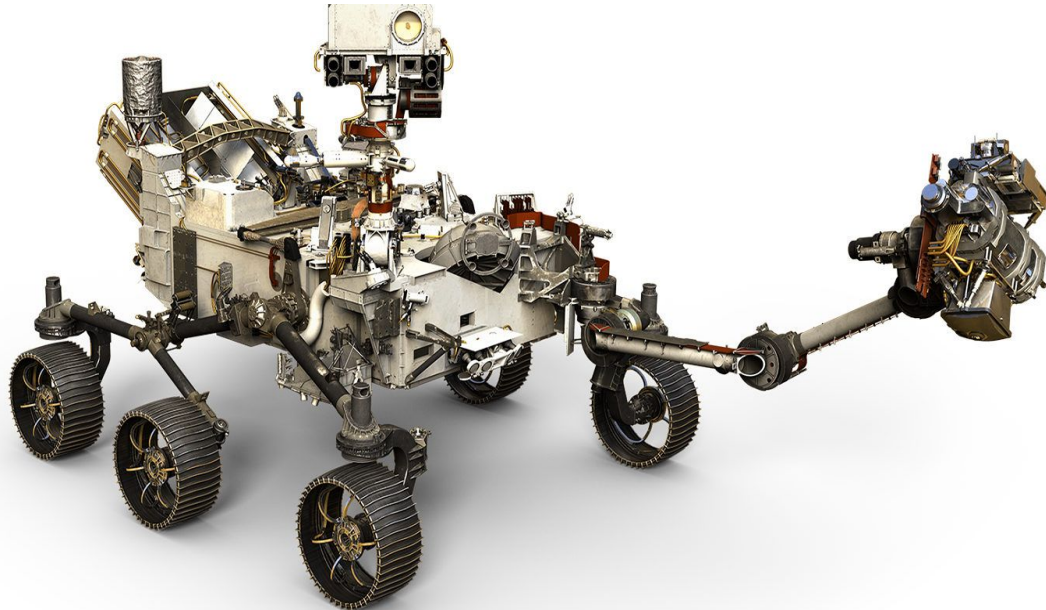
- **PLACE:** Mars
- **LIFE SPAN:** ~2 months
- **MISSION:** Ground data collection, planet exploration

ASSUMPTIONS

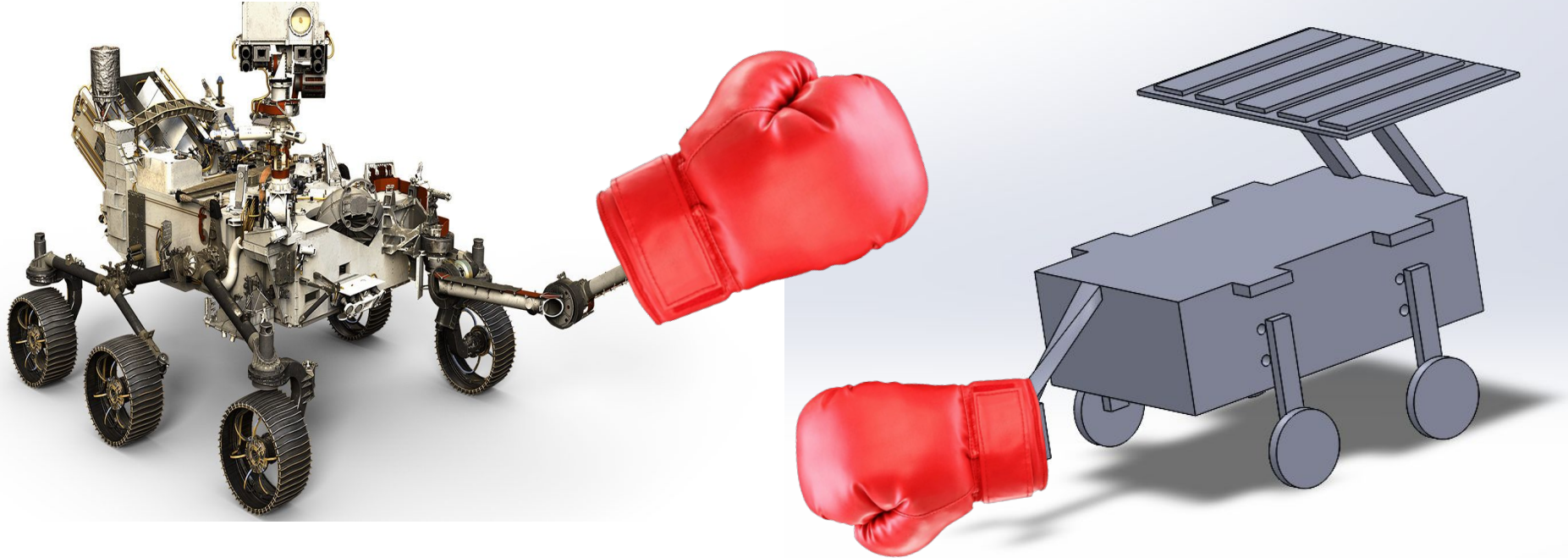
- After the experiment the Rover “dies” on Mars
- Smooth Rover placement on Mars’ surface (no landing system needed)
- The Rover fits on the rocket as is (no deployment system needed)
- No budget cap

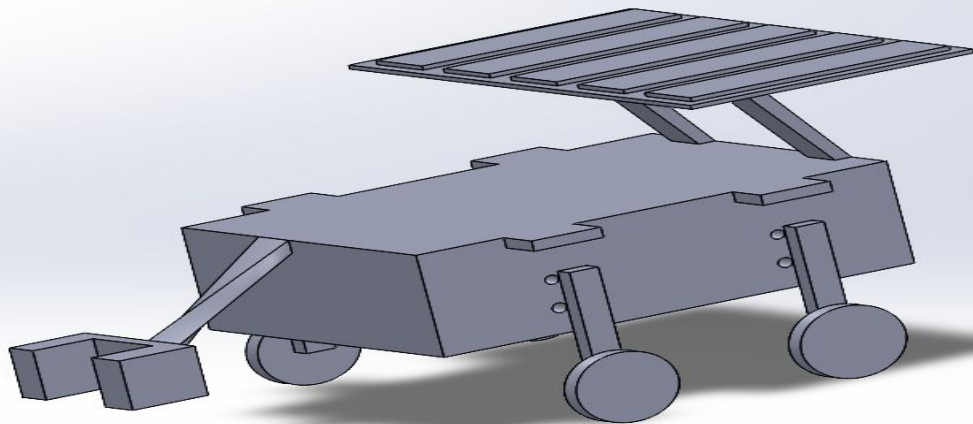
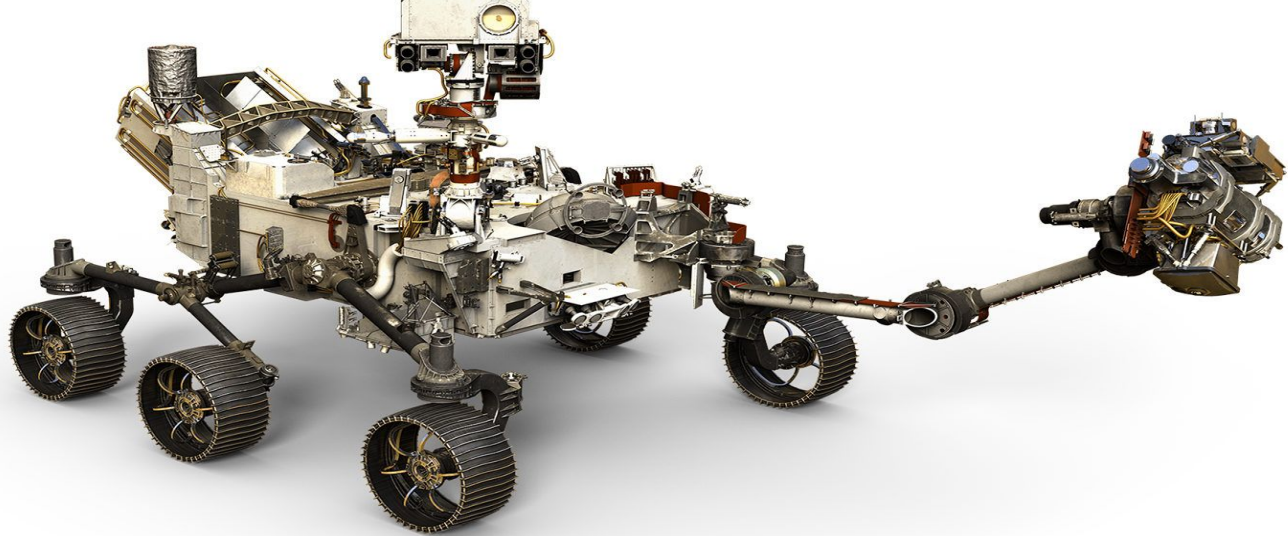


FIRST THOUGHTS

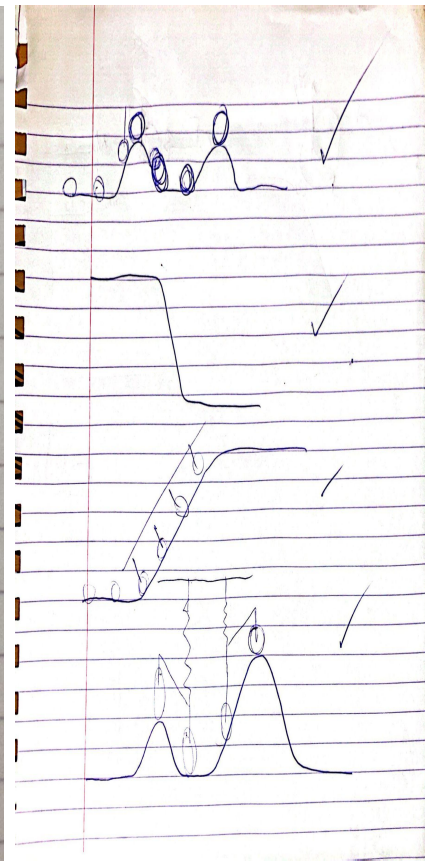
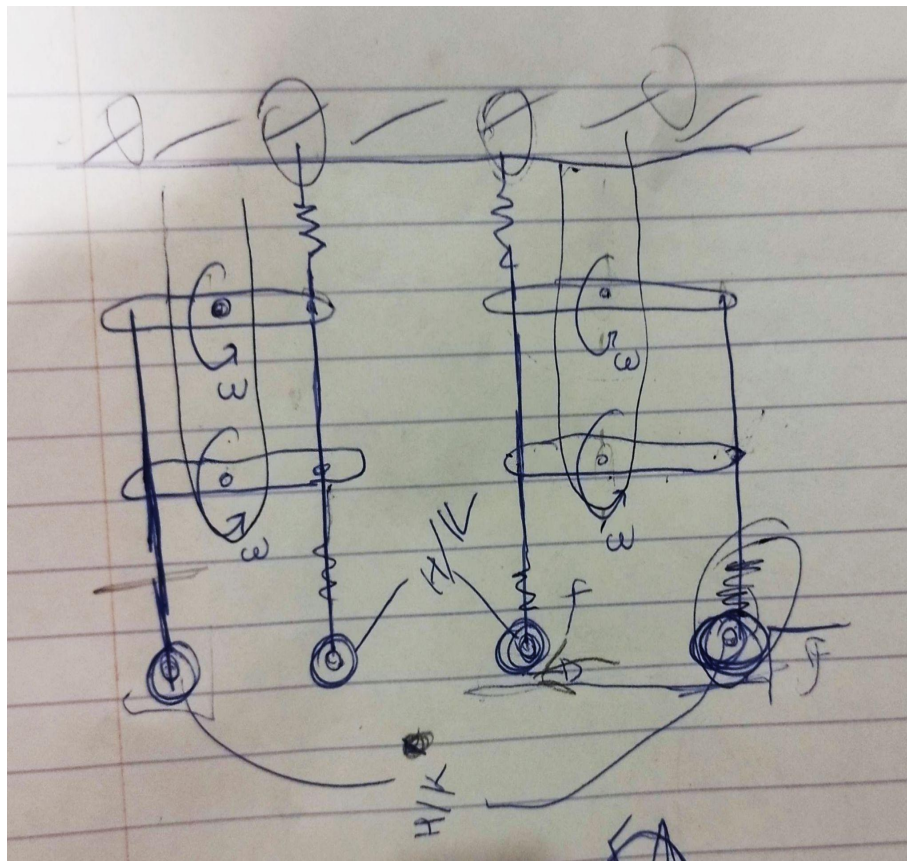
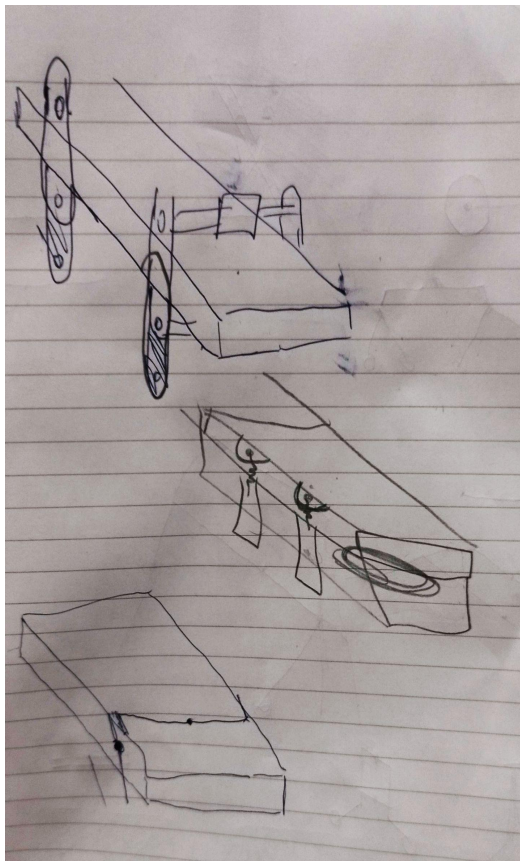


TOUGH FIGHT BUT...

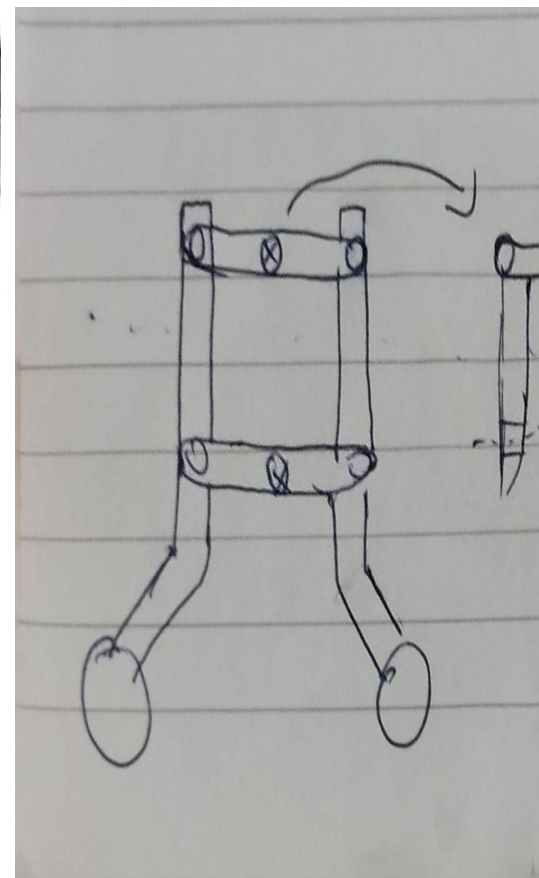
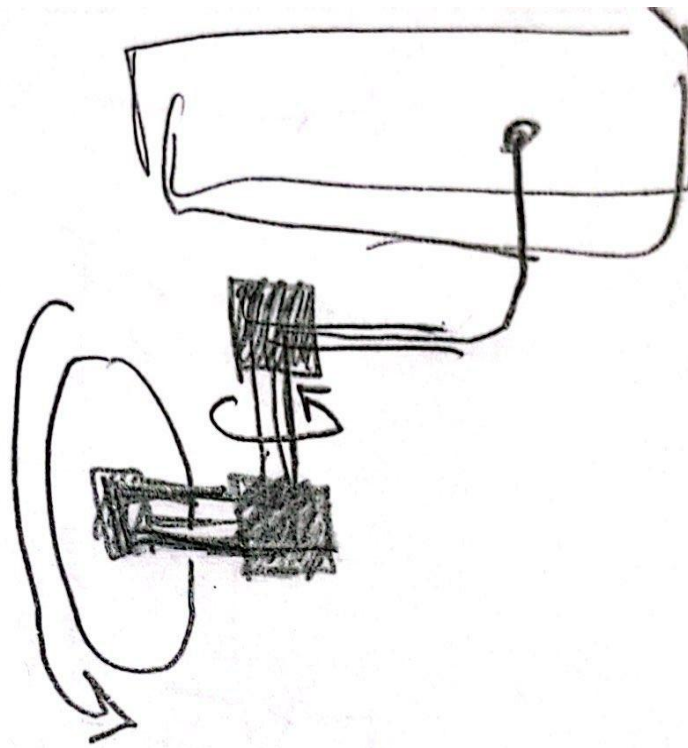




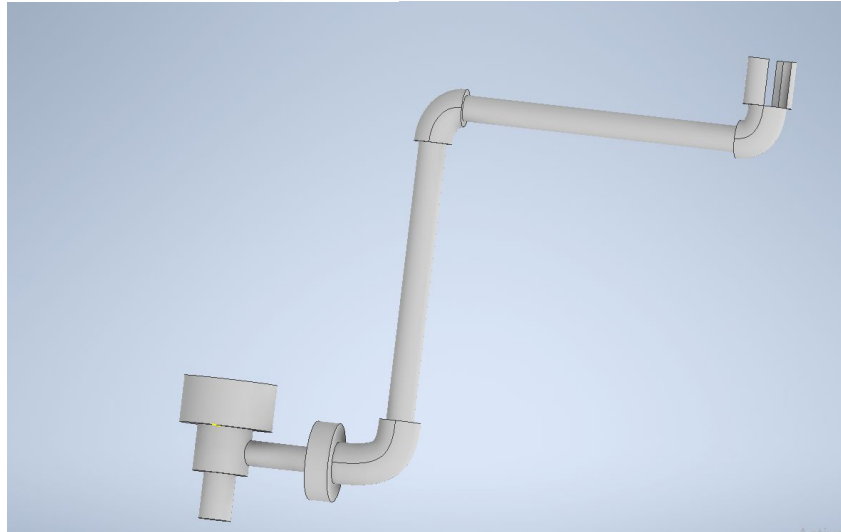
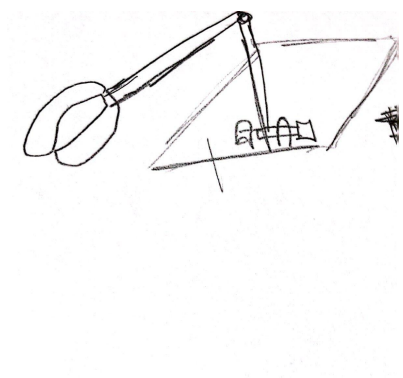
CONCEPTUAL DESIGN



Body and Mobility subsystem



Direction subsystem



Robotic Arm





All our work can be found on Github

