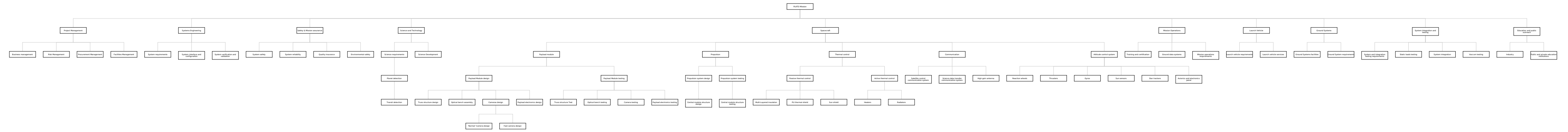


PLATO Mission



Science / Technology Goals	Science / Technology Objectives	Measurement Requirements		Instrument Requirements		Projected Performance	Mission Requirement (Top Level)
		Physical Parameters	Observables				
Discover and study planets around stars	Determine nearby exoplanet's key information	Radius	Periodic decreases of brightness over time	Brightness	Magnitude ≤ 13	Magnitude ≤ 11	Using GNC to point cameras to different stars Stability of cameras while observation Prevent cameras from pointing directly towards out Sun Set of 2 fast cameras for bright stars, color requirements, and fine guidance and Navigation
		Semi-Major axis of the orbit					
	Determine planets and planetary systems history	Mean density					
		Radii of exoplanets of similar composition					
Identify planets that could harbor life	Determine the presence of water on exoplanets	Albedo	Change in the periodic decreases of brightness over time for the same planet	Brightness	Magnitude ≤ 13	Magnitude ≤ 11	

	Identify Earth-like planets	Radius	Periodic decreases of brightness over time	Brightness	Magnitude ≤ 13	Magnitude ≤ 11	
		Mass					

Magnitude ≤ 11 means that it will be able to detect exoplanets crossing stars of magnitude less than or equal to 11 (lower magnitude means brighter star).