Andromeda L1 System Requirements

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Signatures		
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Version 1	1/16/2019	Initial Release
Version 2	2/19/2019	Updated L1_Req_3

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Requirement ID	Requirement Description
L1_Req_1	The vehicle shall reach 10,000 ft AGL
L1_Req_2	The vehicle shall carry 8.8 lbs of payload
L1_Req_3	The payload shall not change the functionality of the rocket when removed
L1_Req_4	The payload shall be able to be weighed independently of other subsystems
L1_Req_5	The payload shall not contain hazardous or biological materials
L1_Req_6	The payload shall be a 10cm x 10cm x 30cm (3U) size
L1_Req_7	A COTS altitude recorder shall be onboard
L1_Req_8	All wires onboard shall be managed in an effective manner
L1_Req_9	All wired connections shall be securely connected
L1_Req_10	All energetic devices shall have a safed and an armed mode
L1_Req_11	All arming switches shall be away from the devices they are arming and easily accessible (externally mounted or inside of a panel)
L1_Req_12	The vehicle shall launch at an 84°∓1° angle
L1_Req_13	The vehicle shall leave the launch rail with at least 100 ft/s (30.5 m/s) of velocity
L1_Req_14	The vehicle shall have between 2 and 4 body calibers at all times propulsion is active

Rocketry