

ID	Description	Weight	Priority	Verified?	Validated?	Status
	Threshold					
101	The system must be housed in an IP67-rated enclosure	1	10	Y	Y	D
102	The system enclosure must fit within the volume of 8" x 5" x 1.25"	0.8	8	Y	Y	D
103	The system software and firmware will be fully open-source	0.9	9	Y	Y	D
104	The system shall be able to record inertial measurements of at least 64 Hz	1	10	Y	N	TIP
105	The system shall be able to store data locally for up to 4 hours continuously	0.8	8	Y	N	TIP
106	The system shall be able to be operate for up to 4 hours continuously	0.8	8	Y	N	A
107	The system shall have simple human interface mechanism for status and logging	0.7	7	Y	Y	D
108	The system firmware shall be an open-architecture	0.5	5	Y	N	A
109	The system will be fully documented	1	10	N	N	A
110	The system shall use version control software to track changes	1	10	Y	Y	D
111	The operator shall be able to load data off the system	1	10	Y	Y	D
112	The system shall be capable of being assembled by hand using basic soldering tools	0.8	8	Y	Y	D
	Reach					
201	The system shall integrate a GPS for position tracking at least 1 Hz	0.7	6	Y	Y	D
202	The system will have a simple logging and status interface accessible via web terminal	0.3	2	Y	N	A
203	The system shall be able to monitor and report battery state of charge	0.2	2	Y	N	A
204	The system will have configurable settings that can be set by the user	0.4	3	Y	Y	D
205	The system can operate in a Wi-Fi access point or client mode	0.2	2	Y	N	A
206	The sensor measurements shall incorporate a calibration model	0.5	4	Y	N	TIP
	Stretch					
301	The system file storage shall be accessible via web interface	0.1	0.8	Y	N	A
302	The system shall have a backup storage option in case primary storage fails	0.1	0.8	N	N	R
303	The system will use a microcontroller capable of basic machine learning	0.05	0.4	N	N	UR
304	The system shall be able to log in a burst mode for up to 24 hours	0.05	0.4	N	N	UR