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Importance Weight		35	40	37	27	32	16	33	37	
Relative Importance		0.14	0.16	0.14	0.11	0.12	0.06	0.13	0.14	İ
Measurement Unit		DOF	Meters	GB	Wh	Cu. cm	Hertz	US Dollars	Ways	İ
Target Value		9	3	64	1.5	73.7	64	\$ 200.00	3	İ
Actual Value		9	3	64	1.5	73.7	100	\$ 150.00	3	l
Lowell Instrument		6	-	64	1.5	122	64	\$ 900.00	1	
iPhone		9	3	128	6.7	63.8	100	\$ 649.00	2	Ī

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Stakeholder Requirements

The system shall communicate intra-device using known IEEE standards (e.g. SPI/I2C/UART/etc)

They system shall have enough on-board storage for 4 hours of continously logging at 64 Hz

The system shall be able to record acceleration, rotation rate, orientation, and position

The system shall be able to be powered by battery for more than 4 hours continuously

The system shall be able to fit into a small IP67-rated, or better, enclosure

Thetis Revision G shall be able to communicate extra-device using CANbus

The system shall have redundant storage for device and communication events

The system shall use components that are readily available COTS

The system shall communicate extra-device using WiFi and USB

The system designs shall be open source for modification by students

The system shall be cheaper than \$200 per unit

SR 01

SR 02

SR 03

SR 04

SR 05

SR 06

SR 07

SR 08

SR 09

SR 10

SR 11