



Engine Acquisition Plan

Document Information		
Author	Brandon Zhang	2/19/19
Current Version	Version 1	
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Signatures		
Author	Brandon Zhang	2/19/19
Revision History		
Version 1	3/4/19	Initial Release



Name of Acquisition	Quantity	Price Per Unit	Total Cost	Vendor Name
Pressure Transducer	1	\$65.00	\$65.00	Aerocon
Load Cell	1	\$30.00	\$30.00	Aerocon
Steel Plate (1/4" x 2" x 6")	2	\$2.15	\$4.30	Metal Supermarket
Steel Plate (1/4" x 2" x 16")	2	5.74	11.48	Metal Supermarket
Steel Plate (1/4" x 4" x 8")	1	\$10.00	\$10.00	Metal Supermarket
Aluminum Right-Angle Bracket (1" x 1 1/2" x 1 1/2")	1	\$0.00	\$0.00	Scrap Bins
Steel I-Beam (3" x 2.33")	18 in	1.41	25.38	Metal Supermarket
M6	2	\$0.00	\$0.00	Hardware Cabinet
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Sheet Metal	1	0	0	Scrap Bins
Shim Stock	1	???	???	
M6 Locknuts	4	0	0	
Blue Tube (29mm ID)	1	0	0	Storage
DataQ DI-1100	1	60	60	DataQ
Instrumentation Amplifier	1	\$6.89	6.89	Digikey
Copper Tubing (1/8" x 12')	1	3.28	3.28	McMaster
Compression-to-Female Fitting (1/8 NPT)	2	1.87	3.74	McMaster
Compression-to-Male Fitting (1/8 NPT)	1	2.59	2.59	McMaster
Tee Fitting (1/8 NPT)	1	7.21	7.21	Grainger
Pipe Nipple (1/8 NPT)	1	1.43	1.43	McMaster
Plug (1/8 NPT)	1	3.21	3.21	McMaster
Pressure Gauge (1/8 NPT)	1	12.93	12.93	McMaster
Polycarbonate	1	0	0	Storage
Aluminum Right-Angle Bracket (1" x 1 1/2" x 1 1/2")	1	10.55	10.55	McMaster
High-Temp Grease	1	9.51	9.51	Amazon
Aluminum Rod (0.5" Diameter)	1	2.66	2.66	McMaster
			Total:	
			\$267.50	

Name of Acquisition	Quantity	Price Per Unit	Total Cost	Vendor Name
Aluminum Tube 1.5"x12" x0.25" wall	1	23.86	23.86	McMaster
Graphite	1	0	0	Storage
10-32 x 0.375"	8	0	0	Hardware Cabine
Aluminum Round 1" x 6"	1	5.86	5.86	McMaster
High-Temperature Silicone O-Ring(25 pack)	1	3.55	3.55	McMaster
Igniters	1	5.87	5.87	Apogee