

Bill of Materials (BOM)														
#	Part Name	Quantity	Size	Description	Purchased From	How Many?	Price	Cost	Status	Date Purchased	Lead Time	Date Arrived	Owners	
1	Dell Mini Laptop	1	9"	Black mini laptop - 9" screen	Geoff	1	\$ 150.00	\$ 150.00	Completed	2/21/2012	0	2/21/2012	Justin	
2	National Instruments DAQ	1	-	National Instruments Data Acquisition Device USB 6210	National Instruments Corporation	1	\$ 584.89	\$ 584.89	Completed	5/7/2012			Chris	
3	Potentiometers	1	-	DAQ Circuitry	Mouser	1	\$ 14.00	\$ 14.00	Completed	5/18/2012			Geoff	
4	Potentiometers	1	-	Boom and Driveshaft	Mouser	1	\$ 16.00	\$ 16.00	Completed	5/18/2012			Geoff	
<b>Base</b>														
1	Driveshaft Bearings	2	25x30x25mm	Tapered Roller Bearings	N/A	2	\$ 0.00	\$ -	Completed			1/2/2012	Don	
2	Square Tubing (1.75")	3	12"	Steel Square Tubing - 1.75" x 12" stock	McMaster-Carr	3	\$ 50.32	\$ 150.96	Completed	2/23/2012		6	3/2/2012	Don
3			34	Base Tube - Horizontal - Middle	-	-	-	-	-				Don	
4			40	Base Tube - Horizontal - Side	-	-	-	-	-				Don	
5			42	Base Tube - Horizontal - Front	-	-	-	-	-				Don	
6			15	Base Tube - Vertical	-	-	-	-	-				Don	
7			5	Base Tube - Leg Vertical	-	-	-	-	-				Don	
8			25	Base Tube - Horizontal - Side Low	-	-	-	-	-				Don	
9			26	Base Tube - Diagonal - Middle	-	-	-	-	-				Don	
10	Square Tubing (1.5" Perforated)	2	12"	Galvanized Square Tubing - 1.5" x 12" stock	McMaster-Carr	2	\$ 58.23	\$ 116.46	Completed	2/23/2012		6	3/2/2012	Don
11			34	Base Leg - Horizontal Insert	-	-	-	-	-				Don	
12			24	Base Leg - Vertical Insert	-	-	-	-	-				Don	
13	Foot Plates	8	4" x 4" x 1/2"	Foot Plates to Weld on + Bearing Mounting Plate	OnlineMetals.com	1	\$ 99.34	\$ 99.34	Completed	2/23/2012		6	3/2/2012	Don
14	Driveshaft	1	1.625" DIA x 36"	Driveshaft Material	OnlineMetals.com	1	\$ 89.95	\$ 89.95	Completed	2/23/2012		6	3/2/2012	Don
15	Stakes	1	1/2" x 36"	Structural Stake	Lowes	12	\$ 4.18	\$ 50.16	Completed	3/19/2012			Don	
SHIPPING COST								\$ 6.73						
<b>Boom</b>														
1	Aluminum Pipe	1	20" x 2.375" OD, 2.867" ID	Main boom, will come in 20" length, we machine down ourselves	Klein Steel	1	\$ 92.17	\$ 92.17	Completed	2/21/2012	0	2/22/2012	Chris	
<b>Hydrofoils</b>														
1	Bluecor Foam Sheets	5		Needs to be more than 1" thick or thinner sheets could be adhered	Lowes	1	\$ 35.61	\$ 35.61	Completed	3/13/2012		6	3/26/2012	Matt
2	sheet metal 1018 Steel Alloy	1	12"x12"x.25"	to apply fiberglass	SMC	2	\$ 22.00	\$ 44.00	Completed	3/13/2012		6	3/26/2012	Matt
3	1018 extension tubing	1	1"ODx0.75"IDx72"	to apply fiberglass	McMaster-Carr	1	\$ 20.26	\$ 20.26	Completed	3/13/2012		6	3/26/2012	Matt
4	1018 Square tube for gear	1	1.625" x 0.525" x 24"	range of gears, roughly 80-300	SMC	2	\$ 21.00	\$ 42.00	Completed	3/13/2012		6	3/26/2012	Matt
5	Steel Clamp	1	5/8" Bore, 2" OD, 1/2"W	Steel Square Bore Two Piece Clamp on Collar	McMaster-Carr	1	\$ 13.33	\$ 13.33	Completed				Matt	
6	fiberglass			to coat hydrofoil			\$ 0.00	\$ -	In House				Matt	
7	hardener			to coat hydrofoil			\$ 0.00	\$ -	In House				Matt	
8	resin			to coat hydrofoil			\$ 0.00	\$ -	In House				Matt	
9	filter			for hydrofoil support rods			\$ 0.00	\$ -	In House				Matt	
10	Release Film	1	54" wide sold by yard	For Fiberglassing	Aircraft Spruce	1	\$ 3.30	\$ 3.30	Completed	3/28/2012		5	Matt	
11	Seamless Ply	1	60" wide sold by yard		Aircraft Spruce	4	\$ 1.86	\$ 7.40	Completed	3/28/2012		5	Matt	
12	Spray Paint	1		Orange, Black, and Primer	Lowes	2	\$ 6.48	\$ 12.94	In House	4/17/2012			Matt	
13	Bondo and dust mask	1			Home Depot	2	\$ 12.04	\$ 24.08	Completed	4/19/2012			Matt	
SHIPPING COST								\$ 18.43						
<b>End Cap</b>														
1	Arduino Microcontroller	1	2" x 4" x 1/2"	Microcontroller	Mc-Gornes	1	\$ -	\$ -	Completed				Joe	
2	HS-7950TH Servo	1	40 x 20 x 30mm	Servo motor for tail flap - HIGH TORQUE DIGITAL SERVO 60 DEGREES ROTATION, CLOCKWISE	Servocity.com	1	\$ 129.99	\$ 129.99	Completed	3/5/2012		5	3/12/2012	Joe
3	Potentiometer - 14348-141	1	75 OD	Variable Contact Switch Standard (5 Turns), 1K Ohm	McMaster	2	\$ 19.89	\$ 39.78	Completed	2/29/2012		5	3/8/2012	Joe
4	Needle Bearing	1	3/4" ID	Steel Needle-Roller Bearing Double Sealed for 3/4" Shaft Dia, 1" OD, 3/4" Width	McMaster	1	\$ 10.86	\$ 10.86	Completed	2/29/2012		5	3/8/2012	Joe
5	Tapered roller bearing	1	3/4" ID	Steel Tapered-Roller Bearing Roller Assembly for 3/4" Shaft Diameter, #1 M11949	McMaster	1	\$ 10.78	\$ 10.78	Completed	2/29/2012		5	3/8/2012	Joe
6	Tapered roller bearing Outer Ring	1	3/4" OD	Steel Tapered-Roller Bearing Outer Ring for 3/4" Shaft Dia, LMI 1910 Bearing #	McMaster	1	\$ 5.80	\$ 5.80	Completed	2/29/2012		5	3/8/2012	Joe
7	End Cap Material	1	3" x 3" x 7"	Multipurpose Aluminum (Alloy 6061) 3, 1/4" Square, 1" Length	McMaster	1	\$ 68.54	\$ 68.54	Completed	2/29/2012		5	3/8/2012	Joe
8	Roller Bearing	1	3/4" ID	Load Bearings for tail shaft to servo	MSC	1	\$ 32.04	\$ 32.04	Completed	2/27/2012		5	3/6/2012	Joe
9	Bearing and O ring	ea	ea	Bearing and O ring		1	\$ 33.66	\$ 33.66	Completed	3/28/2012			4/2/2012	Joe
10	Tension Cables	5		Tension Cables	McMaster	1	\$ 10.27	\$ 10.27	Completed	5/7/2012		5/10/2012		
SHIPPING COST								\$ 13.99						
<b>Generator</b>														
1	DC Gearmotor	1	-3"x-3"x-3"	midwest motion	midwest motion	1	\$ 295.00	\$ 295.00	Completed	3/23/2012		9	4/2/2012	Geoff
2	Large Sprocket	1	4"	Steel Finished Bore Roller Chain Sprocket for #25 Chain, 1/4" Pitch, 72 Teeth, 1/2" Bore	McMaster	1	\$ 22.51	\$ 22.51	Completed	4/20/2012			4/24/2012	Geoff
3	Small Sprocket	1	2.5"	Steel Finished Bore Roller Chain Sprocket for #25 Chain, 1/4" Pitch, 24 Teeth, 1/2" Bore	McMaster	1	\$ 8.13	\$ 8.13	Completed	4/20/2012			4/24/2012	Geoff
4	Chain	ea	ea	Standard ANSI Roller Chain #25, Split Strand, 1/4" Pitch, Rollerless, 13" Dia, 5'L	McMaster	5	\$ 3.78	\$ 18.65	Completed	4/20/2012			4/24/2012	Geoff
SHIPPING COST								\$ 14.00						
TOTAL COST								\$ 2,243.37						
Budget Remaining								(543.37)						