Bill of Materials										
Quantit				Unit	Extende					
у	Part #	Retailer	Name/Desc	Cost	d Cost					
	BGRCB6208D									
1 D-80_2_14		Misumi	Primary bearing + housing	\$218.06	\$218.06					
_		McMast	Angular contact bearing,							
2	8828T115	er	secondary	\$35.46	\$70.92					
	SPFR40-300_	D. 41	I I all account and a large of the second and	007.00	007.00					
1		Misumi	Hollow rotary snaft, primary	\$87.08	\$87.08					
1		Misumi	Secondary shaft	\$27.50	\$27.50					
·			- Cooking Shart	Ψ=:::σσ	421100					
1	2764k138	er	Servomotor coupler, primary	\$60.54	\$60.54					
		McMast								
1	2764k137	er	Servomotor coupler, secondary	\$60.54	\$60.54					
	HEDG-9000-H									
2	13	Mouser	Absolute rotary encoder discs	\$35.57	\$71.14					
	630-AEAT-900		Absolute rotary encoder reader							
2	0-1GSH0	Mouser	heads	\$70.19	\$140.38					
_	3322_0 -	D		***	***					
1		Phidgets	NEMA 11 stepper motor	\$38.00	\$38.00					
4	_	Dhidasta	NICMA 17 atomor motor	£40.00	£40.00					
					\$48.00					
2	_	Phidgets		\$95.00	\$190.00					
1	B011HVUEME	Amazon	RTL-SDR	\$25.95	\$25.95					
	B00AUB5OD									
1	M	Amazon	RTL-SDR Adapter	\$8.51	\$8.51					
1	MBT-2210	Mouser	Minnowboard Turbot	\$150.00	\$150.00					
1	05-BU-353-S4	Amazon	GPS Unit	\$30.45	\$30.45					
1	33-173	Edmund	Blackfly Imager	\$395.00	\$395.00					
2	B005CPI0JQ	Amazon	Serial Adapters	\$29.88	\$59.76					
1	B01LRW956O	Amazon	USB Hub	\$34.99	\$34.99					
	Quantity 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Quantit y Part # BGRCB6208D D-80_2_14 2 8828T115 SPFR40-300_ 2_14 PSFRMHP20-60-F30-P8_2_14 1 2764k138 1 2764k137 HEDG-9000-H 13 630-AEAT-900 0-1GSH0 3322_0 - 28STH32 3329_0 - 42STH38 2 1067_0 1 B011HVUEME B00AUB5OD M 1 MBT-2210 1 05-BU-353-S4 1 33-173 2 B005CPI0JQ	Quantity Part # Retailer BGRCB6208D D-80_2_14 Misumi McMast er McMast er SPFR40-300_ 1 2_14 Misumi PSFRMHP20- 60-F30-P8_2_ 1 14 Misumi McMast er McMast er 1 2764k138 McMast er 1 2764k137 Mouser 630-AEAT-900 2 0-1GSH0 Mouser 3322_0 - 1 28STH32 Phidgets 3329_0 - 1 42STH38 Phidgets 2 1067_0 Phidgets 1 B011HVUEME Amazon B00AUB5OD M Amazon 1 MBT-2210 Mouser 1 05-BU-353-S4 Amazon 1 33-173 Edmund 2 B005CPIOJQ Amazon	QuantityPart #RetailerName/Desc1BGRCB6208D D-80_2_14MisumiPrimary bearing + housing28828T115Angular contact bearing, secondary28828T115Angular contact bearing, secondary3SPFR40-300_ 12_14MisumiHollow rotary shaft, primary4PSFRMHP20-60-F30-P8_2_14MisumiSecondary shaft5McMast erServomotor coupler, primary6PAG4K138Servomotor coupler, secondary7HEDG-9000-H 13MouserAbsolute rotary encoder discs630-AEAT-900 2 0-1GSH0MouserAbsolute rotary encoder reader heads3322_0 - 1 28STH32PhidgetsNEMA 11 stepper motor13329_0 - 1 42STH38PhidgetsNEMA 17 stepper motor21067_0PhidgetsStepper Motor Controller1B01HVUEMEAmazonRTL-SDRB00AUB5OD M M AmazonRTL-SDR Adapter1MBT-2210MouserMinnowboard Turbot105-BU-353-S4AmazonGPS Unit133-173EdmundBlackfly Imager2B005CPI0JQAmazonSerial Adapters	Quantity Part # Retailer Name/Desc Unit Cost 1 BGRCB6208D D-80_2_14 Misumi Primary bearing + housing \$218.06 2 8828T115 McMast er Angular contact bearing, secondary \$35.46 1 SPFR40-300_ 2_14 Misumi Hollow rotary shaft, primary \$87.08 PSFRMHP20-60-F30-P8_2_14 Misumi Secondary shaft \$27.50 1 2764k138 Servomotor coupler, primary \$60.54 1 2764k137 Servomotor coupler, secondary \$60.54 1 HEDG-9000-H 213 Mouser Absolute rotary encoder discs \$35.57 630-AEAT-900 2 0-1GSH0 Mouser Absolute rotary encoder reader heads \$70.19 3322_0 - 1 28STH32 Phidgets NEMA 11 stepper motor \$38.00 3329_0 - 1 42STH38 Phidgets NEMA 17 stepper motor \$48.00 2 1067_0 Phidgets Stepper Motor Controller \$95.00 1 B011HVUEME Amazon RTL-SDR \$25.95 B000AUB5OD MM Amazon RTL-SDR Adapter \$					

PARTS

					TOTAL:	\$1,716.8 2	
Ite m#	Quantit y	Part #	Retailer	Name/Desc	Unit Cost	Extende d Cost	
1	2	86825K15	McMast er	MIC6 Plate, .5X12X12	\$59.78	\$119.56	
2	1	8975K266	McMast er	6061 AI, 2X4X6	\$39.31	\$39.31	
3	1	8975K288	McMast er	6061 AI, 3X6X12	\$129.72	\$129.72	MATERIA LS
4	1	8975K293	McMast er	6061 AI, 4X6X12	\$176.66	\$176.66	
6			McMast er	Wiring and Hardware		\$50.00	
					TOTAL	\$515.25	ı
				PROJECT COST:	\$2,232.0 7		