

Item	Description	Quantity	Price	Cost	Comments
LiFePO4 Battery	12V 25Ah (300Wh) Battery with built in LED	1	\$330.00	\$330.00	
Battery Charger	12.8 Volt LiFePO4 Battery Pack (10A) Smart Chrg	1	\$84.99	\$84.99	
PCB	fabrication and shipping	2	\$150.00	\$300.00	
Passive Electrical Components	Electrical parts and shipping	2	\$100.00	\$200.00	Estimate of all the passive elements required in final circuit
LCD display	Display used as interface to show battery status	2	\$30.00	\$60.00	
Material	Materials for housing	1	\$100.00	\$100.00	
Microcontrollers	T1 microcontroller with 18.3dBm transmitting power	2	\$10.80	\$21.60	
RF cable and connectors	2.4Ghz transceiver	1	\$50.00	\$50.00	
Transceivers	2.4Ghz Antenna for long range	1	\$240.00	\$240.00	
Directional Antennas	2.4Ghz Antenna short range	2	\$40.00	\$80.00	
Omnidirectional Antennas	Ethernet lines and ports	1	\$20.00	\$20.00	
Ethernet	Ethernet lines and ports	1	\$109.77	\$109.77	
Poster Board	Ethernet chip	1	\$7.99	\$7.99	For Capstone Fair
Microchip ENC28J60	Ethernet chip	2	\$2.93	\$5.86	
Total:				\$1,610.21	

*Ben Smith*