

Need	Driver	CTQ
Move Freely through wireless controls	WOCCS	The level of latency in communication between the MSA/LVE and controller is less than 1 second Range of signal between controller and MSA is at least 100 ft
	GUI Interface	Controls can be reconfigured in GUI Feedback for speed and input is given in GUI
Cost Effective to be mass produced	# of LVEs/MSAs	Size of class is between 30-35 students, with 3 classes per semester Combine LVE and MSA control boards
	Size	Weight of LVE is less than 15 lbs Battery lasts at least 90 minutes Load capacity of the LVE is at least 5 lbs
	Commercial Options	Look at cheaper commercial option for WOCCS for mass production
Able to withstand repeated use	Material Choice	Order the same material for chassis in one piece to reduce material cost Weight of LVE compared to cost for material choice of metal vs. plastic
	Size	Total size of LVE is less than 144 in ^2
Reliable, minimal repairs and debugging	Custom built components	Quality and reliability of companies supplying parts, have 0 part failures Lead time on parts is less than 2 weeks, expect for PCBs
Provide educational value to freshmen	Activity	Number of machined parts is 3 to 4 MSA requires calculations by students to be successful Parts must be simple for Freshmen to design in CAD
	Entertainment	The LVE and MSA must be remote controlled The MSA must accomplish a task