

Rank	Customer Requirements	Engineering Requirements	Rank
1	Safety	Braking Distance (m)	1
5	Ease of Operation	Limit Actuating Systems	5
2	Stability	Minimum of 3 wheels	2
3	Operation Age (5-13 years old)	Seat to Pedal Distance (cm)	3
4	Educational	Volume (m <sup>3</sup> )	4
6	Transportable	Center of Mass	6
7	Rollover protection	Gear Ratios	7
8	Manufacturability	Turning Radius (m)	8
		Mechanical Properties	
		Weight (lbs)	
		Deflection (mm)	

<b>Bill of Materials</b>	
<b>Items</b>	<b>Cost</b>
6061 Aluminum Tubing	\$215
Crank	\$90
Brakes	\$90
Chains	\$15
Wheels X 3	\$240
Tires	\$90
LED's (Braking/Turning)	\$15
Fairing	\$120
Total	\$875