# To Predict > To Design > To Perform



<b>Engineering Specifications</b>		
Specifications	Target	Actual
Average Speed	5.5mph	2.55mph
Turn Radius	≤15ft	≤11ft
Vehicle Weight	225lbs	277lbs
Braking Distance	4-8ft	7.5ft
Width	≤60in	54in
Fender Area	≥120in <sup>2</sup>	145in <sup>2</sup>
Collapsed Size	60x60x60in <sup>3</sup>	54x58x43.5in <sup>3</sup>
Vehicle Clearance	≥15in	15.5in
Assembly Time	<18s	10.42s

# Sponsors: Jack Rettig represented by Dr. Dimitris Nikitopoulos







- on frame after cutting out holes to /eight Max Stress: 7200 psi Factor of Safety: 6.4
- Weight cut per half frame: 2.8lbs



### Advisor: Dr. Manas Gartia



College of Engineering



## Alumni Advisor: Mr. Blake David

Not Used
😑 Drive Train
Logistics
Wheels
Shipping
<ul> <li>Brakes</li> </ul>
Frame
Suspension
CNC
Seating
Safety
Aesthetics
Steering