Robot Mass	0.494 Kg	Mass increased because of rubber "shoes" to increase friction
Coefficient of friction	0.7 Hard Ri	ubber on wood. https://mae.ufl.edu/designlab/Class%20Projects/Background%20Information/Friction%20coefficients.htm
Helium Balloons' "Lift"	0.220 Kg	
Gravitational acceleration	5.4 m/s2	gmicro = 9.8 x (Robot mass - Lift)/Robot mass
Force of friction	1.9 N	
Predicted Thrust	6.5 N	

d = 1/2 at^2 a = 2d/(t^2) F = m*2d/(t^2)		Formula = 1 - (Expected Thrust)/(Actual Generated Thrust)	Actual Net Thrust X Impulse Duration	v =(Actual Net Thrust * Impulse duration)/Mas
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Run	Impulse Ph	iase	Glide	Phase		Time			Distance				Impulse phas	e	
	Start Time (s)	End time (s)	Start Time	End Time	Impulse duration	Glide Duration (s)	Total Travel time (s)	Total Distance travelled (m)	Impulse Phase Distance (m)	Glide Distance (m)	Actual Net Thrust (N)	Actual Generated Thrust (N)	% Difference in Thrust (Model vs Measured)		Peak Velocity (m/s)
1	7.55	8.00	8.00	8.51	0.45	0.51	1.0	1.47	0.9	0.58	4.3	6.2	5%	2.0	4.0
2	13.13	13.56	13.56	13.93	0.43	0.4	8.0	1.37	0.7	0.66	3.8	5.7	13%	1.6	3.3
3	14.32	14.78	14.78	15.26	0.46	0.5	0.9	1.32	0.7	0.64	3.2	5.1	22%	1.5	3.0
4	12.12	12.60	12.60	13.15	0.48	0.6	1.0	1.55	0.9	0.69	3.7	5.6	15%	1.8	3.6

Legend	
Green	Actual measurement data
Clear	Calculated from data using arithmetic
Gold	Well known value, sourced via an external source
Grey	Predicted by model
Orange	Indirect measurement: using actual data and Newton's laws of motion and motion equations