To Predict > To Design > To Perform

ME, ECE, IE Capstone Design Programs

Team 18: ATLAS Charles Chauncy, Hunter DesRoches, Decatur Durel, Lee Freyou, Ryan Moreau

Ba	ckground	d	
Combat Robots must defined by RobotBattl robots. While compet each other from the co pushing each other of Competition Dates: • LSU Competition: A • MomoCon: May 25	es on their rule pa ing, the robots att ombat platform, g f the edge. April 4, 2017	ige for 30 lb empt to remove	
Objectives			HDP Fram
 Build a weaponized Capstone Design of "Robot Battles" fea budget of \$3,000. Win the LSU compo 2nd pla Win the RobotBatt Engineering	ompetition in Apri atherweight class i etition ace/Rumble Cham les competition at	l within the rules and a pion MomoCon	
Specification	Target	Value	
Weight	29.25 – 30.75 Ibs	30.40 lbs	
Tip Speed (weapon)	< 20 ft/s	.0872 ft/s	
Robot Size	< 16' x 16'	16" x 24"	ell.
Drivetrain Force (one wheel)	60 lbs	75 lbs	
Lifting Capability	30 lbs	35 lbs	1 state
Speed	7-10 ft/s	10 ft/s	- 22
Battery Run Time	> 9 minutes	46 minutes	



Sponsor: Mr. Jack Rettig, Dr. Guoqiang Li







Self-righting







Advisor: Dr. Marcio de Queiroz