

ME, ECE, BE Capstone Design Programs



MINI BAJA VEHICLE

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Top Speed: 36 mph
Overall Weight: 418 lbs.



5-Point Safety Harness and Fire Extinguisher

AISI 4130 Steel Tubular Frame

Rack & Pinion Steering:
12 ft. Turning Diameter

22 inch Maxxis Razr 2 Tires

10 inch ITP Aluminum Wheels

Custom Aluminum Uprights

Hydraulic Disc Braking System

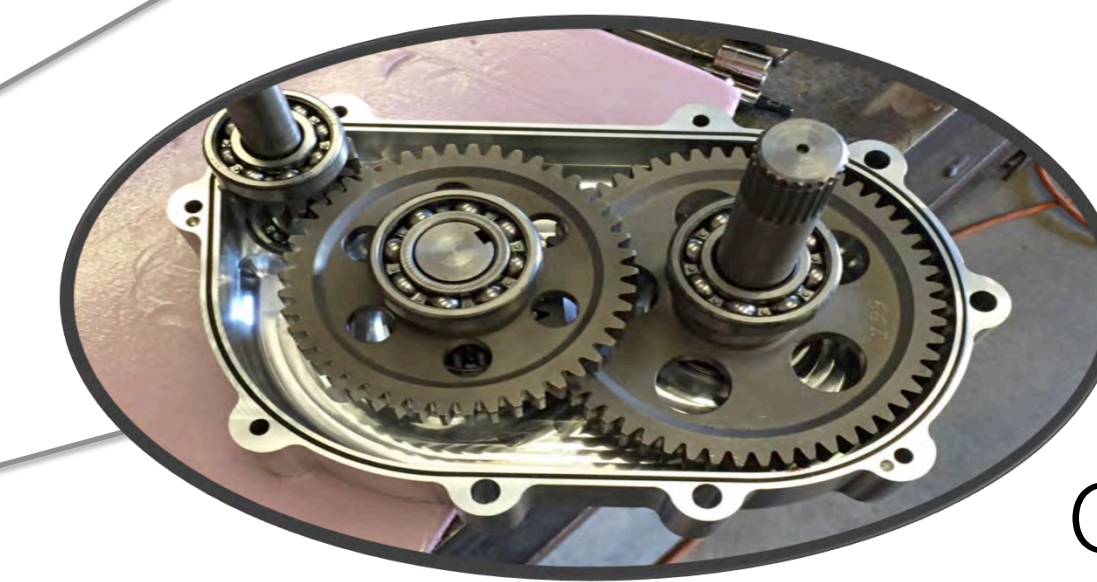
Carbon Fiber Body Panels and Nosecone

Unequal Length Control Arms

Kirkey Racing Seat



Briggs & Stratton
10 Hp Engine



Custom Single
Speed Solid Spool
Gearbox
6.8:1 Gear Ratio



Gaged Engineering
Continuously Variable
Transmission



Fox Float EVOL R
Pneumatic Shocks

3-Link Trailing Arm
Rear Suspension

OBJECTIVES

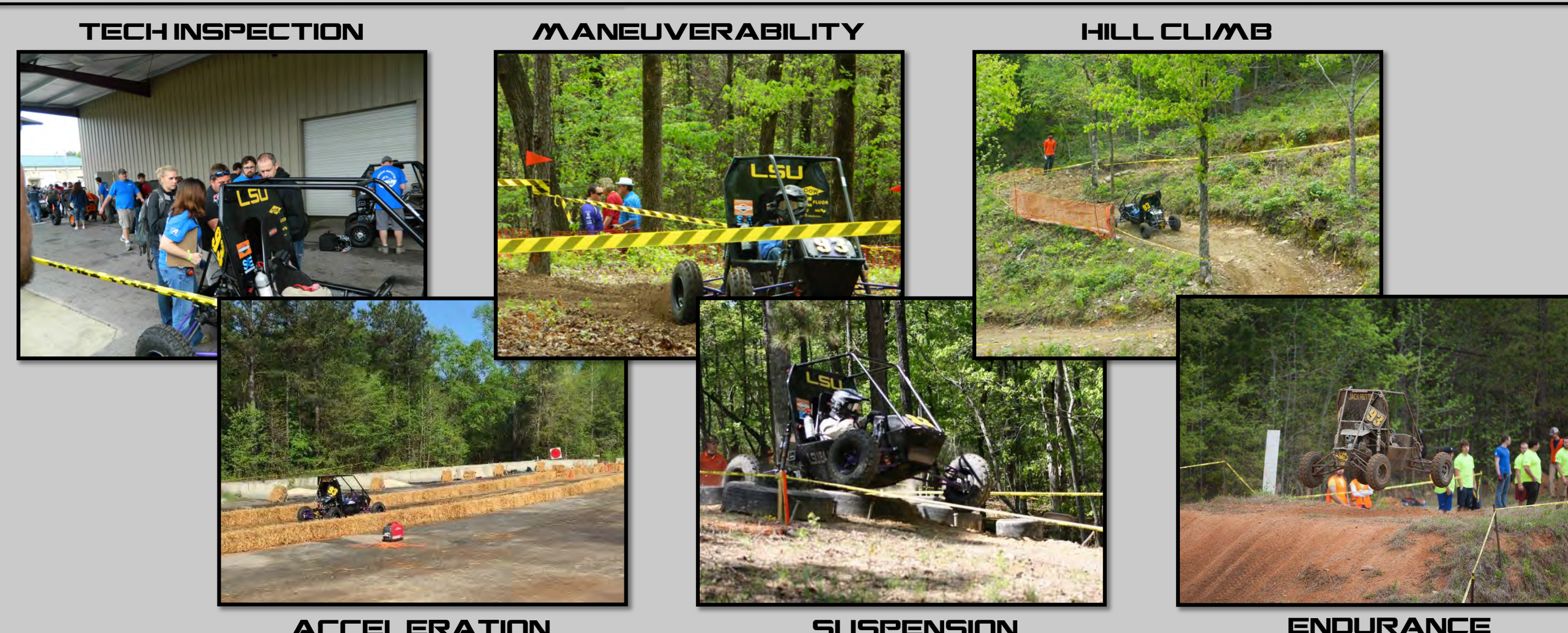
Capstone Objectives

- Design, Engineer, and Manufacture an all-terrain Baja vehicle that excels in areas such as durability, speed, and maneuverability to compete in the Baja SAE Competition

Vehicle Objectives

- Reduce the weight in comparison to the 2014 LSU vehicle
- Increase Maneuverability compared to the 2014 vehicle
- Complete 4 hour endurance track

COMPETITION



RESULTS

