To Predict > To Design > To Perform



Background

- Competition to get the highest mpg
- Held downtown in Detroit, Michigan
- Competition Date: April 22-24th, 2016
- Each lap has a distance of 0.6 miles
- Complete 10 laps under 24 minutes for each attempt
- Allowed 6 attempts only
- Last LSU team competed in 2009 achieving ~460 mpg

Objectives

- Achieve 800 mpg
- Roll bar resist deformation from 156 lbs application
- Battery will last a minimum of 0.96 hours
- Static Brake at 20% incline

Budget





LSU Eceaux Team #33

David Anderson, Chris Brignac, Josh Joffrion, Philip Johnson, Josh Palmer, Jahin Parvez, Kyle Temple

Vehicle Weight Distribution 32 lbs 68 lbs 31 lbs 68" November December January

Purchasing

Schematics



College of Engineering **Department** of **Mechanical & Industrial Engineering**

Vehicle Specifications

Vehicle Weight: 131 lbs Dimensions(L x W x H): 122 in x 37 in x 24.5 in Engine: Robin Subaru 35cc; 1.6 Hp Gear Reduction: 16:1 ratio

Materials:

Body: Carbon Fiber Frame: Aluminum Windshield: Lexan Polycarbonate

Miles Per Gallon Testing Results

Waiting on official results from Shell



February

Frame Manufacture

34.5"

Body Manufacture

March

Testing/Competition

April



