Registration Form

TEAM INFORMATION

Team Name/Project Title: Lynx Motorsports

Department: Mechanical Engineering

Faculty Advisors: Doug Gallagher, Joseph Cullen

Team Members: Anthony Aragon, Daniel Horne, Darrien Hicks, Eduardo Corral, Ian Stith, James Weed, Joseph Hamvas, Justin Herrmann, Matthew Ten Eyck, Michael Tussing, Philip Jones, Stephen Cole

Non-Senior Members: Anthony Ciaglia, Daniel Ledvinka, Elijah Valentine, Jack Allen, Matthew Koehler, Michael Vulcan, Nicholas Lanzoni, Paige Garbett, Riley Thurow

PROJECT INFORMATION

Description:

Formula SAE is an international design competition. It challenges undergraduate and graduate students to be creative within strict engineering constrains to build a formula car.

Abstract:

The Formula SAE racecar is the product of both capstone classes and engineering research. The Lynx Motorsports team will design and manufacture an open-wheeled formula racecar. The Formula competition is designed to allow students the opportunity to apply class-learned skills in budgeting, communication, project management, and resource management to the mobility-related disciplines practiced within the automotive industry (Society of Automotive Engineers). Because the competition is designed for auto-cross style racing, speeds are limited to around 80 mph; however, this means the acceleration and cornering of the vehicle are paramount to the design. This year’s car will aim for acceleration of 1g, cornering at 1.2, and braking at 1.75g. The 2019 car, the LX-19, will have to be fuel efficient, running on E-85, and it will weigh less than 500 pounds. The design of the intake and exhaust system changes greatly this year. Using industry standard simulation software like Ricardo wave, and Siemen’s Star CCM+, iterations of designs can be made quickly, and the best exhaust and intake design chosen. Most Formula SAE teams have about 50 or more members, so Lynx Motorsports is currently a small team with 13 Senior members. Every part on the vehicle must be understood fully to do well at competition, so each member has a hand in the many systems that make up a formula car.
Illustration:

![Illustration of a race car frame](image-url)