



NJIT *Formula SAE*

Highlander Racing



2010 Michigan Competition



About Formula SAE

Formula SAE (FSAE) is a collegiate design competition where undergraduate and graduate students are given the task to design, manufacture, and compete with a small Formula-style racecar. FSAE allows students of all majors to experience the process of design, optimization, & manufacturing from the ground up. Besides designing and engineering the team is also responsible for finances, marketing, management, and all business characteristics for producing the race car. These are all aspects which students in engineering or otherwise, will use during their career.

FSAE is run worldwide with competitions in Australia, South America, Europe, and North America. In the United States there are two annual competitions, one in Michigan and the other in California. Each year universities from around the world gather and compete with one another to claim the top prize of being the Champion. Along with trophies and recognition for their excellent work, top teams also gain awards in the form of cash and parts from event sponsors such as: Autodesk, Honda, GM, Ford, Goodyear and many others.

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About NJIT SAE

The **NJIT FSAE Team** is in its 2nd year of competition. In May 2010 we competed at Michigan International Speedway with over 100 teams from countries all around the world.

The competition lasted four days, where teams race to win in five Dynamic Events (Acceleration, Skid-Pad, Autocross, Fuel Economy, & Endurance). We also competed in Static Events (Presentation, Design, and Cost Analysis). NJIT FSAE Team competed in the Static Events but was not able to compete in the Dynamic events. At competition we experienced a part failure, causing an oil leak. Upon return to school the part was replaced and the car is now operating.

For the 2011 competition year we are completely redesigning the car and have our eyes set on Michigan. We are implementing new designs & strategies in both our business and engineering divisions to strengthen our team and our final product



Design – CAD - Analysis

