

## Powercat Motorsports Team

Formula SAE is a collegiate engineering design competition with the goal of developing and constructing a single-seat race car for autocross racing. Formula SAE teams must consider every aspect of design, manufacturing, performance and cost to create the best overall package.

The K-State Powercat Motorsports Team creates a new race car every year from the ground up to maximize design optimizations. This season's goal was to integrate a new large-engine platform, while reducing wheel weight and size. These changes were implemented to allow the team to better reach its target of a top-10 accelerating team.

Multiple international competitions are held annually. The team competed in FSAE Michigan 2016 and placed 71st out of 120 teams, following unexpected engine difficulties and a sudden drive chain break preventing the team from finishing the endurance race.

Each competition consists of technical inspections, design presentation and judging, cost/business analysis and skidpad/autocross/acceleration/endurance racing. The team competed in FSAE Michigan 2017 and FSAE Lincoln 2017.

### Team leaders

Patrick Harwell	President
Zachary Bair	Business Lead
Brett Cook	Aerodynamics Lead
Trevor Duerksen	Drivetrain Lead
Aaron Gleason	Chassis Lead
Brendan Gundy	Ergonomics Lead
Tyler Hinnen	Electrical Lead
Dwight Pearson	Engine Lead
Tim Spencer	Suspension Lead

### Faculty adviser

Kevin Wanklyn, MNE instructor

