Summer/Fall FSAE Senior Design & Build Phase

Team
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Clinic Advisor
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Project Summary
This project will be an official entry into the FSAE formula racecar competition sponsored by the Society of Automotive Engineers. It is an annual competition at which teams from across the country and around the world compete in various aspects of a car design project, including design, construction, and performance testing of the car itself, along with the associated project management and business aspects.

Design Goal
The vehicle shall be in full compliance with all specifications as required by the FSAE guidelines. Full documentation of the design and build process will be required to facilitate hand-off to the following team and for continuity and reference to future builds.

Design Constraints
- Design and build a car in full compliance with 2017-2018 FSAE guidelines that passes technical inspection.
- Reduce weight from previous years’ cars
- Implement a motor that requires a lower volumetric flow than previous years’ motor
- Redesign and improve major functional components of the current car for better performance