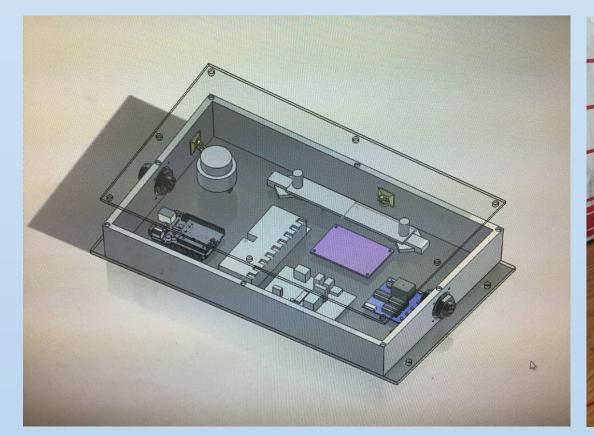
Anteater Racing



Current Status

The picture above of the mock up accurately depicts our progress. We currently have a working high voltage drivetrain with both electric motors spinning and being controlled by our low voltage controls circuits. Below discusses a bit more about our components and their progress.



LV Electrical

Provides the control for the car. FSAE rules require a throttle plausibility circuit, a brake system encoder, a brake plausibility device, an insulation monitoring device, a ready to drive sound, a battery management system, a shut down relay board, a precharge discharge circuit, and a tractive system active light. Every circuit except the IMD is working.

FSAE ELECTRIC THOR

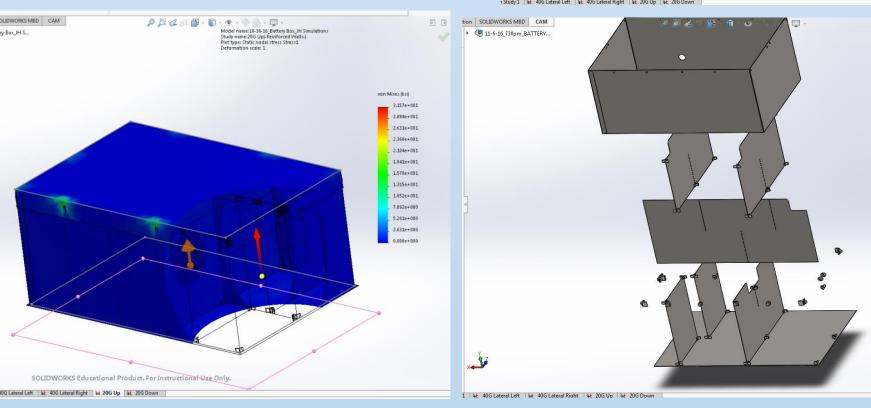
UCI Samueli School of Engineering

Goals

- Compete at FSAE Electric in June 21, 2017
- Pass technical inspection following all 1200 rules
- Compete in at least one dynamic event
- Complete running car 45 days before competition

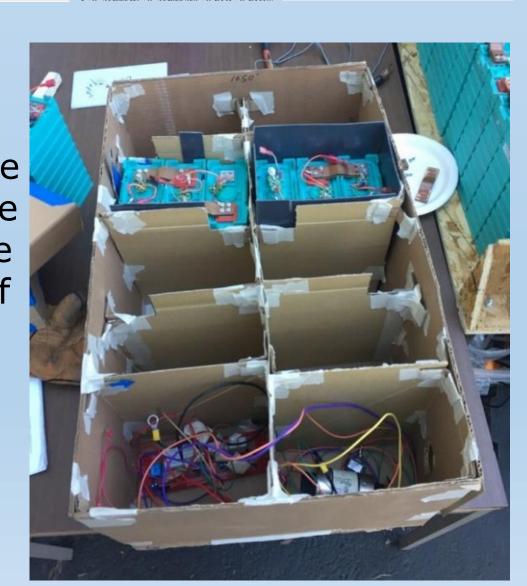
Requirements

Requirements are set based on the FSAE rules document, every single rule is a requirement the racecar must meet. The other requirement is to follow safe practices in all aspects of the project including manufacturing and testing.



Battery Box

This year we hope to run one battery box in the rear of the car. The battery box must be able to easily hold 150 lbs of batteries while meting the FSAE requirement of up to 40g loads without structurally failing. The box simulation is shown above and a mock up to the right.

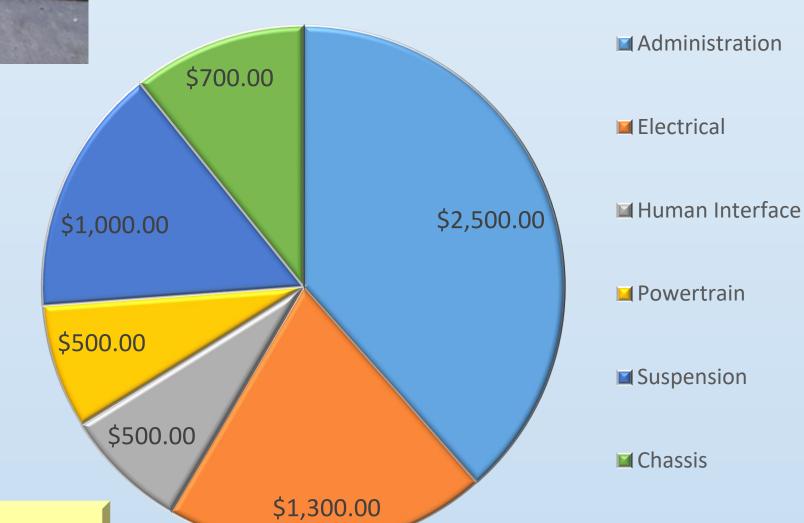


Team Structure

Advisor Professor McCarthy

Chief Engineer Zach DeMotte

Budget



Electrical Lead Kavier Dedenbach

Batteries Lead Mark McCorkle

Chassis Lead Peter Bui

Human Interface Haoli He

Suspension Lead Liam Buchanan

Powertrain Lead Antonio Rojas

Team Engineers

Timeline

Fall Quarter

Electrical Design Battery Box Design Electrical circuit testing Chassis design Suspension design **Human Interface Design**

Winter Quarter

Battery box manufacturing Suspension Manufacturing Chassis Manufacturing Finalize Human Interface design, begin manufacturing

Spring Quarter

Finish manufacturing all components Testing Go to competition

Powertrain

Powertrain is the high voltage electrical as well as the mechanical component of the drivetrain. Thor will use 2 ME1003 motors and operate at 72 volts.

Chassis

The chassis is the frame of the car, it is still currently in design, though this is the current iteration.

