

Formula SAE Delta 2015-2016

Advisor: Dr. Michael McCarthy

BACKGROUND

The FSAE Delta Project aims to improve to the fuel efficiency of compressed natural gas vehicles. Delta is a longstanding project and competitive vehicle. Delta has won multiple fuel efficiency awards.

GOAL

The goal of this project is to repair Delta back to an operational status. In addition, Delta's goal is first place in the next UCI Energy Invitational.

OBJECTIVES

For the 2015-2016 year Delta will need to have replaced suspension components and we will be exploring various methods of increasing fuel efficiency through aerodynamics, weight reduction, optimizing fuel mixture, and powertrain refinement.

TEAM MEMBERS

Brian Pham, Nawid Mehrzai, Sovan Bopha

Suspension/Chassis

Upright adapters, control arms, and suspension linkages are completely fabricated. Next phase requires testing and tuning.

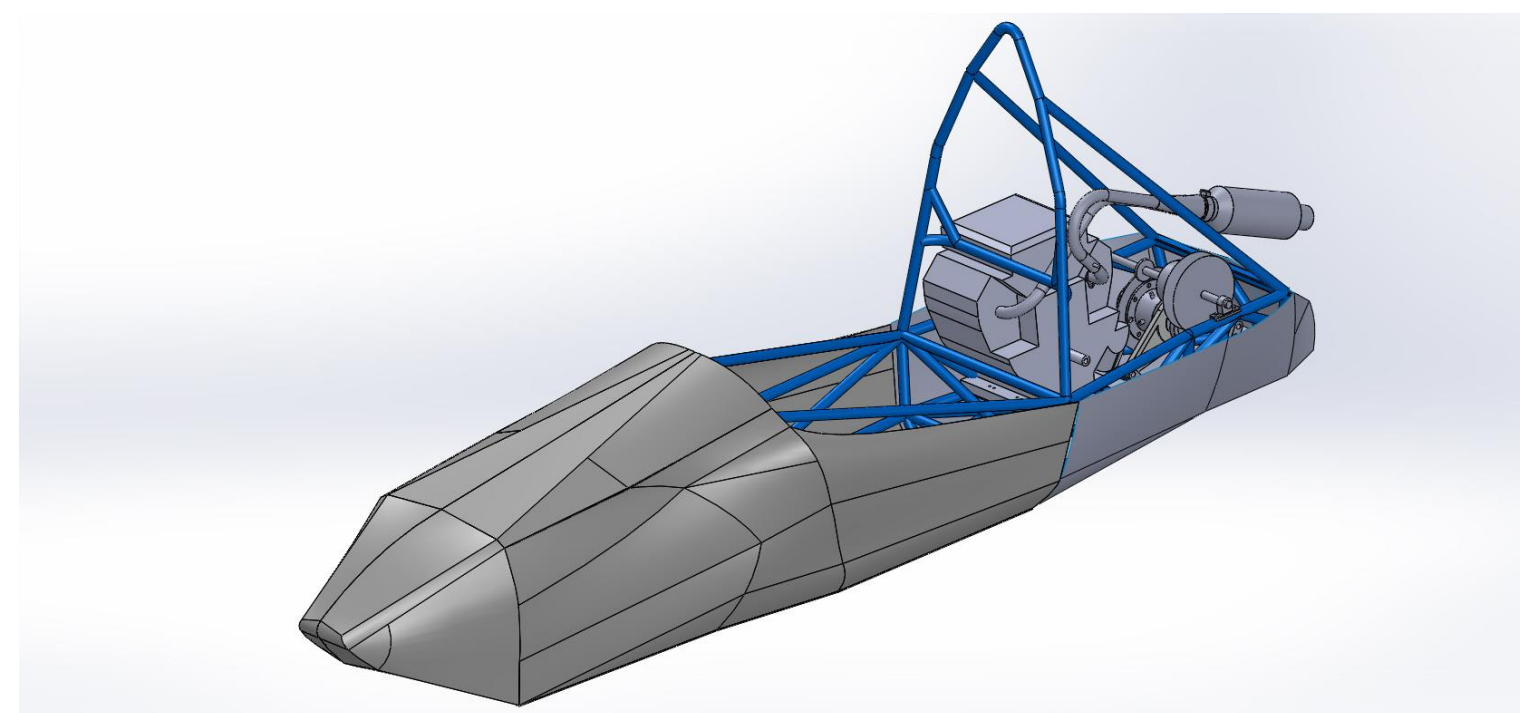


Powertrain/Driveline

Exhaust flanges were cracked and required replacement. CVT requires maintenance, repair, and replacement.

Aero/Body

A lightweight body will be fabricated out of an aluminum frame covered by a resin impregnated fabric.



Human Interface

Residual gauges, from Delta's supercharged hybrid days, will be removed. Other gauges will be repaired and calibrated. Considerations are being made for adjustable pedal box repairs.

