

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 UC Irvine Energy Invitational.

OBJECTIVES

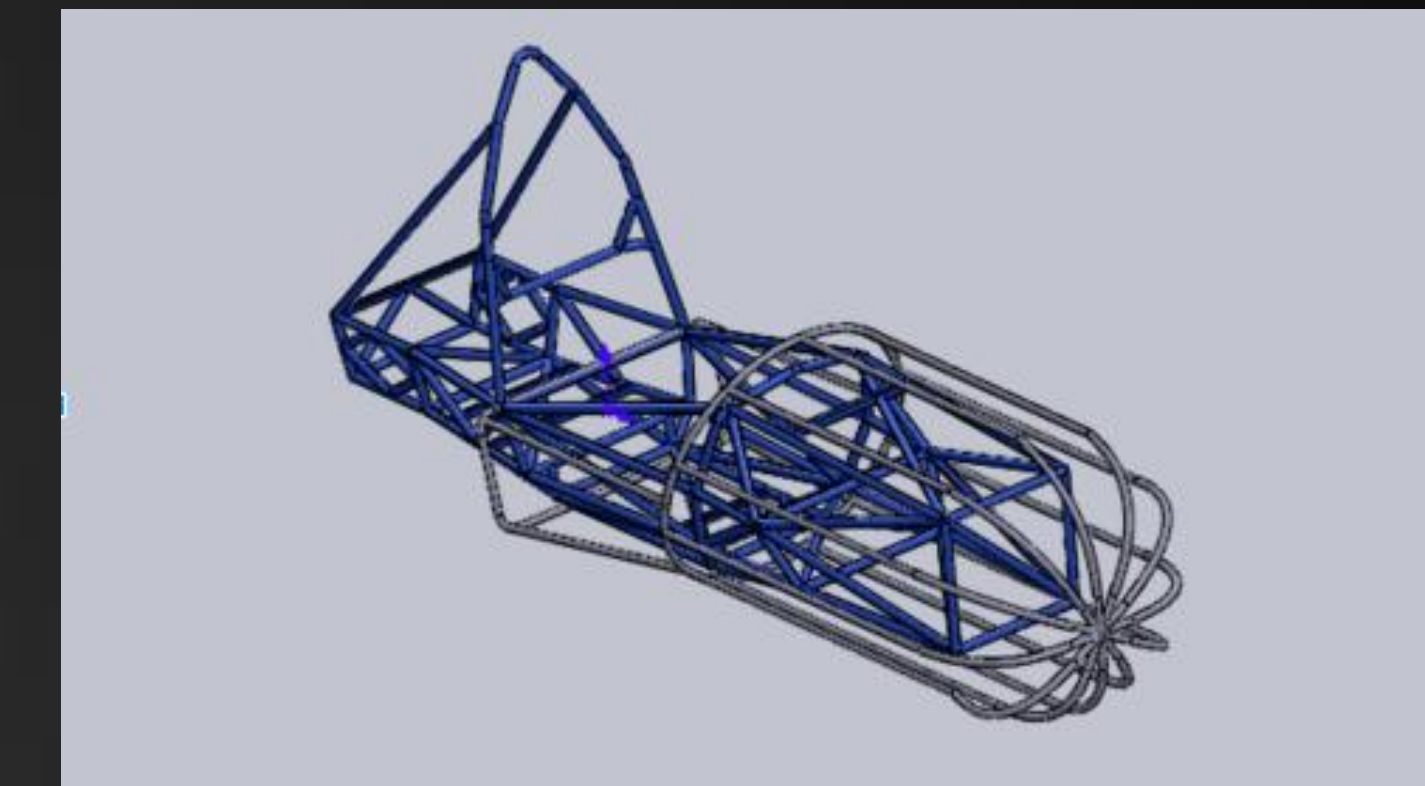
For the 2015-2016 year Delta will need to have replaced suspension components and we will be exploring various methods of increasing fuel efficiency through aerodynamics, weight reduction, fuel injection, and powertrain refinement.

TEAM MEMBERS

Brian Pham, Nawid Mehrzai, K.C. Huynh, Dylan Huynh, Jamison DeGuzman, Nelson DeGuzman, Nazneen Peracha, Michael Song

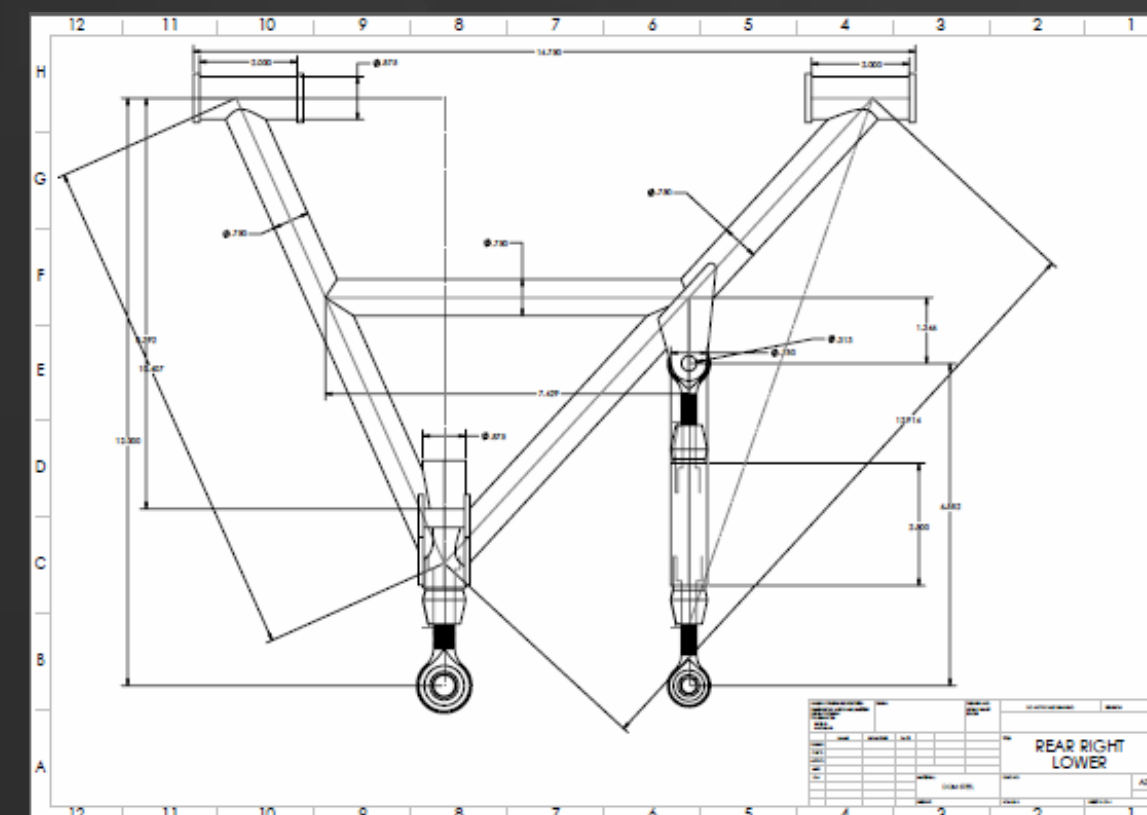


Aero/Body



The aerodynamics sub-team will design and fabricate a lightweight body made out of lightweight resin impregnated fabric.

Suspension/Chassis



The suspension and chassis sub-team will fabricate linkages and reinforce bent members. These components will be made out of 1020 DOM steel tubing.

Powertrain



The powertrain sub-team will be responsible for re-designing and manufacturing the exhaust pipe and header.

Human Interface



The human interface sub-team will take inventory of the gauges. Gauges that are in-operable will be replaced.